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FIGURE 5162

MDNKKRLAYAI IQFLHDQLRHGGLSSDAQESLEVAIQCLETAFGVTVEDSDLALPQTLPEIFEAAATGKEMPQDL
RSPARTPPSEEDSAEAERLKTEGNEQMKVENFEAAVHFYGKAIELNPANAVYFCNRAAAYSKLGN YAGAVQDCER
AICIDPAYSKAYGRMGLALSSLNKHVEAVAYYKKALELDPDNETYKSNLKIAELKLREAPSPTGGVGSFDIAGLL
NNPGFMSMASNLMNNPQIQQLMSGMISGGNNPLGTPGTSPSQNDLASLIQAGQQFAQQMQQNPELIEQLRSQIR
SRTPSASNDDQQE

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FIGURE 5163

GTGGCGGCGGTTGGGCGGAGGCAGGCGGCCTCAGTGGCCGAGGTGGCTGGACGCGTAGCAGGTGGAAGGAGGGAG
GGAGCCGCAGGCGCAGACCCACCCGCCATGAAGCCCCCGCAGCCTGTGCAGGAGACATGGCGGACGCAGCATCT
CCGTGCTCTGTGGTAAACGACCTGCGGTGGGACCTGAGTGCCAGCAGATAGAGGAGCGCACCAGGGAGCTCATC
GAGCAGACCAAGCGCGTGTATGACCAGGTTGGCACCAGGAGTTTGAGGACGTGTCTTACGAGAGCACGCTCAAG
GCGCTGGCCGATGTGGAGGTCACCTACACAGTTTACAGAGGAATATCCTTGACTTCCCCCAGCATGTTTCCCCCTCC
AAGGACATCCGGACAGCCAGCACAGAGGCCGACAAGAAGCTCTCTGAGTTTCGACGTGGAGATGAGCATGAGGGAG
GACGTGTACCAGAGGATCGTGTGGCTCCAGGAGAAAGTTTACAAGGACTCACTGAGGCCCGAGGCTGCGCGGTAC
CTGGAGCGGCTAATCAAGCTGGGCGGAGAAATGGGCTTACCTCCCCAGAGAGACTCAGGAAAACATCAAACGC
ATCAAGAAGAAGCTGAGCCTTCTGTGCATCGACTTCAACAAGAACCTGAACGAGGACACGACCTTCCTGCCCTTC
ACGCTCCAGGAGCTAGGAGGGCTCCCCGAGGACTTTCTGAACCTCCCTGGAGAAGATGGAGGACGGCAAGTTGAAG
GTCACCTCAAGTACCCCCATTACTTCCCCCTCCTGAAGAAATGCCACGTGCCTGAGACCAGGAGGAAAGTGGAG
GAGGCCTTCAACTGCCGGTGAAGGAGGAGAACTGCGCTATCCTCAAGGAGCTGGTGACGCTGCGGGCCAGAAAG
TCCCGCTGCTGGGGTTCCACACGCACGCCGACTATGTCTGGAGATGAACATGGCCAAGACCAGCCAGACCGTG
GCCACCTTCCTAGATGAGCTGGCGCAGAAGCTGAAGCCCTGGGGGAGCAGGAGCGTGCGGTGATTCTGGAGCTG
AAGCGTGCGGAGTGCGAGCGCGGGGCTGCCCTTCGACGGCCGCATCCGTGCCTGGGACATGCGCTACTACATG
AACCAGGTGGAGGAGACGCGCTACTGCGTGGACCAGAACCTGCTCAAGGAGTACTTCCCCGTGCAGGTGGTCACG
CACGGGCTGCTGGGCATCTACCAGGAGCTCCTGGGGCTGGCCTTCCACCACGAGGAGGGCGCCAGTGCTGGCAT
GAGGACGTGCGGCTCTACACCGCAGGGACGCGGCCTCGGGGAGGTGGTTCGCAAGTTTCTACCTGGACCTGTAC
CCGCGGGAAGGAAAGTACGGGCACGCGGCCTGCTTTGGCCTGCAGCCCGGCTGCCTGCGGCAGGATGGGAGCCGC
CAGATCGCCATCGCGGCCATGGTGGCCAACCTTACCAAGCCACAGCCGACGCGCCCTCGCTGCTGCAGCATGAC
GAGGTGGAGACCTACTTCCATGAGTTTGGCCACGTGATGCACCAGCTCTGCTCCAGGCGGAGTTTCGCCATGTTT
AGCGGGACCCACGTGGAGCGGGACTTTGTGGAGGCGCGTTCGAGATGCTGGAGAACTGGGTGTGGGAGCAGGAG
CCGCTGCTGCGGATGTGCGGGCACTACCGCACAGGCAGCGCCGTGCCCCGGGAGCTCCTGGAGAAGCTCATTGAG
TCCCGGCAGGCCAACACAGGCCTCTTCAACCTGCGCCAGATCGTCTCGCCAAGGTGGACCAGGCCCTGCACAG
CAGACGGACGCAGACCCCGCCGAGGAGTATGCGCGGCTCTGCCAGGAGATCCTCGGGGTCCCGGCCACGCCAGGA
ACCAACATGCCTGCAACCTTCGGCCATCTGGCAGGTGGCTACGACGCCCAGTACTACGGGTACCTGTGGAGCGAG
GTGTATTCCATGGACATGTTCACACGCGCTTCAAGCAGGAGGGTGTCTTGAACAGCAAGGTGGCATGGATTAC
AGAAGCTGCATCCTGAGACCCGGCGGTTCCGAGGATGCCAGCGCCATGCTGAGGCGCTTCTGGGCGGTGACCCC
AAGCAGGACGCCTTCCTCCTGAGCAAGGGGCTGCAGGTGCGGGGCTGCGAGCCCCGAGCCGAGGTCTGCTGAGGC
CTGGCACTGCGACTGCCAGTCTGGCCTGCGCTCCCGCGGCCCTGGTGCCTTAGCCCCCGGCACAGGATGGGGCA
GGCTCTGGCACAGTGCCTGGGACTGGCAGGGTGGCTGAGCGGCTGTCTTGCCTCTTGTCTGTCTGTCCCCACC
CGGTGCTGGCCCCACCGGCTAGAGACGGCGTCTCAAGGCATCTGGAGGGCTTTCGTGGCTGCCAGGGCCTGGTC
TTTGTGCACTAACACGTCTCCTCTCTGGGAAACGTCCCTTGTGAGGAGACGGCTCTTCTTTGAAATGAGGTCA
TAAAAGGAAAC

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FIGURE 5164

MKPPAACAGDMADAASPCSVVNDLRWDLAQQIEERTRELIEQTKRVYDQVGTQEFEDVSYESTLKALADVEVTY
TVQRNILDFFQHVSPSKDIRTASTEADKKLSEFDVEMSMREDVYQRIVWLQEKVQKDSL RPEAARYLERLIKLR
RNLHLPRETQENIKRIKKKLSLLCIDFNKNLNEDTTFLPFTLQELGGLPEDFLNSLEKMEDGKLKVTLYPHYF
PLLKKCHVPETRRKVEEAFNCRCKEENCAILKELVTLRAQKSRL LGFHTHADYVLEMNMAKTSQTVATFLDELAQ
KLKPLGEQERAVILELKRAECERRGLPFDGRIRAWDMRYMNVQVEETRYCVDQNLKEYFPVQVVTGGLGIYQE
LLGLAFHHEEGASAWHEDVRLYTARDAASGEVVGKFYLDLYPREGKYGHAACFGLQPGCLRQDGSRQIAIAAMVA
NFTKPTADAPSLQHDEVETYFHEFGHVMHQLCSQAEFAMFSGTHVERDFVEAP SQMLNWWWEQEPLLMSRHY
RTGSAVPRELLEKLIESRQANTGLFNLRQIVLAKVDQALHTQTDADPAEYARLCQEILGVFPATPGTNMPATFGH
LAGGYDAQYYGYLWSEVYSMDMFHTRFKQEGVLNSKVGMDYRSCILRPGGSEDASAMLRRLGRDPKQDAFLLSK
GLQVGGCEPEPQVC

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FIGURE 5165

CTGGGGGGCTTTTCGGATCGGCAGGATGTACCCCCAGGGAAGGCACCCGACCCCGCTCCAGTCCGGCCAGCCCTT
CAAGTTCTCGATCTTGGAGATCTGCGACCGCATCAAAGAAGAATTCCAGTTTCTTCAGGCTCAATACCACAGCCT
CAAGCTAGAATGTGAGAAGCTGGCCAGCGAGAAGACGGAATGCAGCGACATTATGTCATGTATTATGAGATGTC
GTACGGGCTCAACATTGAAATGCATAAGCAGGCGGAGATTGTGAAGCGTCTGAGCGGTATCTGCGCTCAGATTAT
CCCCTTCCTGACCCAGGAGCATCAGCAGCAGGTGCTCCAGGCCGTAGAACGCGCCAAGCAGGTCACCGTGGGGGA
GCTGAACAGCCTCATCGGGCAGCAGCTCCAGCCGCTGTCCACCACGCACCCCTGTGCCCTCACCCCCGCC
AGCCGGGCTGGTGGGCGGCAGTGCTACGGGGCTGCTTGCTCTGTCTGGAGCCCTGGCTGCCCAGGCTCAGCTGGC
GGCGGCTGTCAAGGAGGACCGTGCGGGCGTGAGGCGGAGGGGTCCAGAGTGGAGAGAGCCCCGAGCAGGAGTGC
ATCTCCCTCGCCCCCTGAGAGTCTCGTGGAGGAGGAGCGACCGAGTGGCCCTGGTGGTGGCGGGAAGCAGAGAGC
AGATGAGAAGGAGCCATCAGGACCTTATGAAAGCGACGAAGACAAGAGTGATTACAATCTGGTGGTGGACGAGGA
CCAACCTCAGAGCCCCCAGCCCGGCTACCACCCCTGCGGAAAGGTACCCATCTGCATTCTGCCCTCGGGA
CCTGGTGGACAGTCCAGCCTCCTTGGCCTCTAGCCTTGCTCACCCTGCTAGAGCCAAGGAGCTCATCTGAA
TGACCTTCCCGCCAGCACTCCTGCCTCCAAATCTGTGACTCCTCCCCGCCCGAGGACGCTTCCACCCCGGGCC
CAGCTCGGCCAGTCACTCTGCCAGCTTGCTGCCAAGCCAGCACCTTCCACGGACAGCGTCGCCCTGAGGAGCCC
CCTGACTCTGTCCAGTCCCTTACCACGTCTTACGCTGGGCTCCACAGCACTCTCAACGGAGACCTCTCCGT
GCCCAGCTCCTACGTCAGCTCCACCTGTCCCCCAGGTGAGCAGCTCTGTGGTGTACGGACGCTCCCCGTGAT
GGCATTGTAGTCTCATCCCCATCTCCGAGGGTCATCCGTCTCTTCTCCCTACCCAGCATCCCTGGGGGAAAGCC
GGCCTACTCCTTCCACGTGTCTGCGGACGGGCAGATGCAGCCGTTCCCTTCCCTCGGATGCACTGGTAGGCGC
GGGCATCCCGCGGCACGCCCGGCAGCTGCACACGCTGGCCCATGGCGAGGTGGTCTGCGCGGTCACCATCAGCGG
CTCCACACAGCATGTGTACACGGGCGGCAAGGGCTGTGTGAAGGTGTGGGACGTGGGCCAGCCTGGGGCCAAGAC
GCCCCTGGCCCAGCTCGACTGCCTGAACCGAGACAATACTATTCTGCAAGTTGCTGCCGGATGGCCGGAG
TCTGATCGTGGGCGGTGAGGCCAGCACCTTGTCCATTGGGACCTGGCGGCGCCACCCCCGTATCAAGGCCGA
GCTGACTTCTCAGCCCCAGCCTGCTACGCCCTGGCCGTGAGCCCCGACGCCAAGGTTGCTTCTCCTGCTGCAG
CGATGGCAACATTGTGGTCTGGGACCTGCAGAATCAGACTATGGTCAGGCAGTTCCAGGGCCACACGGACGGCGC
CAGCTGCATTGATATTTCCGATTACGGCACTCGGCTCTGGACAGGGGCTGGACAACACGGTGCCTGCTGGGA
CCTGCGGGAGGGCCGCCAGCTGCAGCAGCATGACTTCAGCTCCAGATTTCTCCCTGGGCCACTGCCCTAACCA
GGACTGGCTGGCGGTGGAATGGAGAGTAGCAACGTGGAGATCCTGCACGTCCGCAAGCCGAGAAATACCAGCT
GCACCTCCACGAGAGCTGCGTGCTGTCCCTGAAGTTGCTCCTGCGGACGGTGGTTTGTGAGCACCGGGAAGGA
CAACCTGCTCAACGCTGGAGGACGCCGTACGGGGCCAGCATTTTCCAGTCCAAGGAGTCGTCTCAGTCCCTGAG
TTGTGACATCTCCAGAAATAACAAATACATCGTGACAGGCTCGGGGGACAAGAAGGCCACCGTGTATGAGGTGGT
CTACTGAGACATGACCCCC

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FIGURE 5166

GCCGCACTGAGCCACAGCCCCGGGGGCCGCTCCCGGGGCCCTTGAGGCACTGAGGCACCGAGACTGGTTCTCC
CCGAGAGACTCGGAAGGTGGGGAACGAGGGGACTGTGTTTGGGGAGGTGGCTTTTTTCGTCTGCTGTTGACTGAAC
ACTACAGCGCCCTGTGGTTCCGGGCTTCGCACAGCTGTCCCAGGGATGGATCGCCTGTGCTGCCTTCGCCCGCCG
CCACACCGGGACCCCTGCACGGCTGCTTCTGGCCTCGACAGATGACAAAAGAAACAGCCCCAAAATACGACCACTC
CAACCAGCAGTTCCCGCCTGCCTGCCCCGCCACTGTCAGGCCTGCCCTGGCCTCCTCGTCCGCAGGGCTGTCTGCT
GGCTTCTGGGGGCAGAAGAGCGGGGAGCCCCGTGGAAGGGTCAGGGGAGACCAGGTCAGGGCAGCTACATTTCTG
GTGATCAGCCCCATGGGGAGACGGGGCTGGCGGGATACCCCCCCCCGGCTTCCCCACACCACTTCTGTCTCACC
CGGAAGCGTCCTTTTTTTGTGCCAGGTGTCTACCTAAGAGGGTTGGTGCCAGAAGCCCCCATGGCGAGTGCTGG
GGCCCGGCGGTGCCCTGGGGGAGCAGATGGGGCCACCCCTGGCAGGGCCGCTACAACCTTTTCCAGCAGCGGAGC
CCTCTGGGGGGCCTGTGCTTGTGGCATCTCTGAGGGCCTAGATTGCACAAGGTGACCTGGCCGTGGCCTGAGGGT
GGAGTCGCCCAGCACGCAGGCCGGGGCGCTGCGGGGCTAAGTATTAGGCCTTCCCAGGGAGGGGGCGTGCCAAGC
ATCCCAGAGCCGGGCTGGGACCGCCAAAACGTCGTGGCCTGGATCCTCTGGGTCTGAGTGCTGATCCCCTGCCC
CCCCAAAAGCAGAGGTAGGTGTTGCAGGCCAGGGCAGGGGTGCCTGCCCCAGGAGAGTCCCAGGCAGTGTTT
TCGTGCCAGTGGCACCCAGGGGCAAGGACAGCCAACCCCCACCCTTGCCACGTGTGGGGCCACGTGGGCATGTGG
GGTGTGTGTTTTTACCTTGGTGAATCTCACCTGCCAACGATTTCTCGTGAGTGCCAATGTCCCCCAGTGGTGGCA
GCAGATCCTGTGGCCGGCCTGGCGGACGGGACCCAGTGATACTTGTATATTACACAGTCTGATTTTCAGACAATT
TCAACCTTAATCTATTTAAAAAAGAATATTCTATACAAGCTGTTTTTAAGCCTTTTACCATTTGAAATGCATGTG
TTGTGCGCGTTGGGGATGGGAGGAGGGGCTGAGGAGCGGCTCAGTGTACCTCCCACAGCCACCGGCCCTGACCC
TTAATCCAGACACCGATGGAAGTCGACTTTTCATATCTTCTCCTGAAATGAACTCTGTTTTAAATTGGAATAAA
TTTTGTTCTT

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FIGURE 5167

MDRLCCLRPPPHRDPARLLLASTDDKRNSPKIRPLQPAVPACLPATVRPALASSSAGLSAGFWGQKSGEPRGRVR
GDQVRAATFLVISPMGRRGWRDTPPPASPHHFCLTRKRPFFVPGVYLRGLVPEAPHGECWGPAVPWGSRWGHPWQ
GRYNLFQQRSPLGGCLWHL

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FIGURE 5168

GGCCGCCCCGGCGCCCCCAGCAGCCCGAGCCGGGGCGCACAGCCGGGGCGCAGCCCGCGCCCCCGCCGCGATTGA
CATGATGTTTCCACAAAGCAGGCATTCGGGGCTCCTCGCACCTACCCAGCAACTCAAATTCACCACCTCGGACTC
CTGCGACCGCATCAAAGACGAATTTAGCTACTGCAAGCTCAGTACCACAGCCTCAAGCTCGAATGTGACAAGTT
GGCCAGTGAGAAAGTCAGAGATGCAGCGTCACTATGTGATGTACTACGAGATGTCCTACGGCTTGAACATCGAGAT
GCACAAACAGGCTGAGATCGTCAAAAGGCTGAACGGGATTTGTGCCCAGGTCTGCCCCTACCTCTCCCAAGAGCA
CCAGCAGCAGGTCTTGGGAGCCATTGAGAGGGCCAAGCAGGTACCCGCTCCCGAGCTGAACTCTATCATCCGACA
GCAGCTCCAAGCCCCACCAGCTGTCCAGCTGCAGGCCCTGGCCCTGCCCTTGACCCCACTACCCGTGGGGCTGCA
GCCGCTTCGCTGCCGGCGGTGAGCGCAGGCACCGGCCTCCTCTCGCTGTCCGCGCTGGGTTCACAGGCCACCT
CTCCAAGGAAGACAAGAACGGGCACGATGGTGACACCCACCAGGAGGATGATGGCGAGAAGTCGGATTAGCAGGG
GGCCGGGACAGGGAGGTTGGGAGGGGGGACAGAGGGGAGACAGAGGCACGGAGAGAAAGGAATGTTTAGCACAAG
ACACAGCGGAGCTCGGGATTGGCTAAACTCCCATAGTATTTATGGTGGCCGCCGGCGGGGGCCCCAGCCCAGCTT
GCAGGCCACCTCTAGCTTTCTTCTACCCCATTCCTGGCTTCCCTCCTCCTCCCTGCAGCCTGGTTAGGTGGAT
ACCTGCCCTGACATGTGAGGCAAGCTAAGGCCTGGAGGGTCAGATGGGAGACCAGGTCCCAAGGGAGCAAGACCT
CGCGAAGCGCAGCAGCCCCGGCCCTTCCCCCGTTTTGAACATGTGTAACCGACAGTCTGCCTGGGCCACAGCCCT
CTCACCTGGTACTGCATGCACGCAATGCTAGCTGCCCCCTTTCCCGTCTGGGCACCCCGAGTCTCCCCCGACCC
CGGGTCCCAGGTATGCTCCACCTCCACCTGCCCCACTACCACCTCTGCTAGTTCCAGACACCTCCACGCCCCAC
CTGGTCTCTCCATCGCCCCACAAAGGGGGGGCACGAGGGACGAGCTTAGCTGAGCTGGGAGGAGCAGGGTGAG
GGTGGGCGACCCAGGATTCCCCCTCCCCTTCCCAATAAAGATGAGGGTACT

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FIGURE 5169

ATGGACCAGGACTATGAGCGGCGCCTGCTTCGCCAGATCGTCATCCAGAATGAGAACACGATGCCACGCGTCACA
GAGATGCGGCGGACCCCTGACGCCTGCCAGCTCCCCAGTGTCTCGCCCAGCAAGCACGGAGACCGCTTCATCCCC
TCCAGAGCCGGAGCCAACTGGAGCGTGAACCTTCACAGGATTAACGAGAATGAGAAGTCTCCCAGTCAGAACC GG
AAAGCCAAGGACGCCACCTCAGACAACGGCAAAGACGGCCTGGCCTACTCTGCCCTGCTCAAGAATGAGCTGCTG
GGTGCCGGCATCGAGAAGGTGCAGGACCCGAGACTGAGGACCGCAGGCTGCAGCCCTCCACGCCTGAGAAGAAG
GGTCTGTTACGTATTCCCTTAGCACCAAGCGCTCCAGCCCCGATGACGGCAACGATGTGTCTCCCTACTCCCTG
TCTCCCGTCAGCAACAAGAGCCAGAAGCTGCTCCGGTCCCCCGGAAACCCACCCGCAAGATCTCCAAGATCCCC
TTCAAGGTGCTGGACGCGCCCGAGCTGCAGGACGACTTCTACCTCAATCTGGTGGACTGGTCGTCCCTCAATGTG
CTCAGCGTGGGGCTAGGCACCTGCGTGTACCTGTGGAGTGCTGTACCAGCCAGGTGACGCGGCTCTGTGACCTC
TCAGTGGAAGGGGACTCAGTGACCTCCGTGGGCTGGTCTGAGCGGGGGAACCTGGTGGCGGTGGGCACACACAAG
GGCTTCGTGCAGATCTGGGACGCAGCCGAGGGAAGAAGCTGTCCATGTTGGAGGGCCACACGGCACGCGTCGGG
GCGCTGGCCTGGAATGCTGAGCAGCTGTCGTCCGGGAGCCGCGACCGCATGATCCTGCAGAGGGACATCCGCACC
CCGCCACTGCAGTCGGAGCGGCGGCTGCAGGGCCACCGGCAGGAGGTGTGCGGGCTCAAGTGGTCCACAGACCAC
CATCTCCTCGCCTCGGGGGGCAACGACAACAAGCTGCTGGTCTGGAATCACTCGAGCCTGAGCCCCGTGCAGCAG
TACACGGAGCACCTGGCGGCCGTGAAGGCAATCGCCTGGTCCCCACATCAGCACGGGCTGCTGGCCTCGGGGGGC
GGCACAGCTGACCGCTGTATCCGCTTCTGGAACACGCTGACAGGACAACCACTGCAGTGTATCGACACGGGCTCC
CAAGTGTGCAATCTGGCCTGGTCCAAGCACGCCAACGAGCTGGTGAGCACGCACGGTTACTCACAGAACCAGATC
CTTGTCTGGAAGTACCCCTCCCTGACCCAGGTGGCCAAGCTGACCGGGCACTCCTACCGCGTGCTGTACCTGGCA
ATGTCCCCTGATGGGGAGGCCATCGTCACTGGTGCTGGAGACGAGACCCCTGAGGTTCTGGAACGTCTTTAGCAAA
ACCCGTTGACAAAGGTAAAGTGGGAGTCTGTGTCTGTGCTCAACCTCTTCACCAGGATCCGGTTAA

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FIGURE 5170

MDQDYERRLLRQIVIQNENTMPRVTEMRRTLTPASSPVSSPSKHGDRFIPSRAGANWSVNFHRINENEKSPSQNR
KAKDATSDNGKDGLAYSALLKNELLGAGIEKVQDPQTEDRRLOPSTPEKKGLFTYSLSTKRSSPDDGNDVSPYSL
SPVSNKSQKLLRSPRKPTRKISKIPFKVLDAPELQDDFYLNLDWSSLNVLVGLGTCVYLWSACTSQVTRLCDL
SVEGDSVTISVGWSEGRNLVAVGTHKGFVQIWDAAAGKKLSMLEGHTARVGALAWNAEQLSSGSRDRMILQDIRT
PPLQSERRLQGHRQEVCGWKWSTDHLLASGGNDNKLLVWNHSSLSPVQQYTEHLAAVKAIASPHQHGLLASGG
GTADRCIRFWNTLTGQPLQCIDTGSQVCNLAWSKHANELVSTHGYSQNQILVWKYPSLTQVAKLTGHSYRVLYLA
MSPDGEAIVTGAGDETLRFWNVFSKTRSTKVKWESVSVLNLFTIR

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FIGURE 5171

TTTCCCGAGATCACCAAGATGCTGGGCGCCGAGTGGAGCAAGCTGCAGCCAACGGAAAAGCAGCGGTACCTGGAT
GAGGCCGAGAGAGAGAAGCAGCAGTACATGAAGGAGCTGCGGGCGTACCAGCAGTCTGAAGCCTATAAGATGTGC
ACGGAGAAGATCCAGGAGAAGAAGATCAAGAAAGAAGACTCGAGCTCTGGGCTCATGAACACTCTCCTGAATGGA
CACAAGGGTGGGGACTGCGATGGCTTCTCCACCTTCGATGTTCCCATCTTCACTGAAGAGTTCTTGACC AAAAC
AAAGCGCGTGAGGCGGAGCTTCGGCGCTTGCGGAAGATGAATGTGGCCTTCGAGGAGCAGAACGCGGTACTGCAG
AGGCAAAACGCAGAGCATGAGCAGCGCGCGAGCGTCTGGAGCAGGAGCTGGCGCTGGAGGAGCGGAGGACGCT
GGCGCTGCAGCAGCAGCTCCAGGCCGTGCGCCAGGCGCTCACCGCCAGCTTCGCCTCACTGCCGGTGCCGGGCAC
GGGCGAAAACGCCCACGCTGGGCACTCTGGACTTCTACATGGCCCCGGCTTCACGGAGCCATCGAGCGCGACCCCGC
CCAGCACGAGAAGCTCATCGTCCGCATCAAGGAAATCCTGGCCCCAGGTCGCCAGCGAGCACCTGTGAGGAGTGGG
CGGGCCCCACGATGCAGAGGAGAAGCTGTGGGCGCGGCCCTGCCACACCCACCCCGTGGACGAGAGGCTGGGGGT
CCACCCCTTTGGGGCCTGGTCCCATCCTGCACCTTTGGGGGCTCCAGCCCCCTAAAATTAAATTTCTGCAGCATC
CCTTTAGCTTTCAATCTCCCCAGCCCCCTGAACCCGGAAAAAGCACTCGCTGCGCGATACACCCAGAAGAACCTC
ACAGCCGAGGGTGCCCCCTCCTCGGAGGACAGCCACGCGCTACACTGGCTCTCCGGGGCCACCCCAAGACACAGGG
CAGACGAAACCCACCCCAAGCACACGGCAGGACCCCCCAAATTACTACTACGGGGGGCTGTGCCATAGGCCACA
CAGGAAGCTGCCTTGTGGGGACTTACCTGGGGTGTCCCCGCATGCCTGTACCCCAAGATGGGTGGGGGCCGGCTT
TGCCCATCCTGCTCTCCTCCAGCCGAGGGACCCTGGTGGGGGTGGCTCCTTCTCACTGCTGGATCCGGACTTTTT
AAATAAAAACAAGTAAATTTGTGTTTTAAAA

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FIGURE 5172

MLGAEWSKLQPTKQRYLDEAEREKQOYMKELRAYQQSEAYKMCTEKIQEKKIKKEDSSSGLMNTLLNGHKGGDC
DGFSTFDVPIFTTEFLDQNKAREAELRRLRKMNVAFEEQNAVLQRQNAEHEQRARASGAGAGAGGAEDAGAAAAA
PGRAPGAHRQLRLTAGAGHGRNAHAGHSGLLHGPAASRSRHRARPRPAREAHREPHQGNPGPGRQAPVRSGRAHDAE
EKLWARPCHTPPRGREAGGPPFGAWSHAPAPLGAPAPLKLNFCSIPLAFNLPSPLNPEKALAARYTQKNLTAE GAP
PRRTATRYTGSPGHPQDTGQTKPTPSTRQDPPNYSLRGAVP

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FIGURE 5173

GCGCCAGGCCCCGCTGGGGCAGGTGTCCCGTGGAATCGACGGAGGGGCTGCCGTGGGCGGCCGTGACAGTCACAG
AGAGGGGAAGAGAAAACAGGGACGGTGACACACACAGAGAGAAGGAAGAGCAGACAGAGGCACAGCAGGAGACCC
CCCCAAGCCCGAGGAGGACAGCCTGGGGATGCAGAGCACATGCCGGCCCCAGTGAGGGGAACCGATTTCCCCGA
GCCGGGAGGCAAGCCTGGGGCTCCCCCTGCCCTGTCCCTGCCGGTAGCCCCCCCAGCCGTCTCCCCACCATCTGTC
CCGCTGCCGTCCCACCAGGTGGGAGCCATGTTCTGAGCCCCGGGCGAGGGGCGGCAACCGAGGGTGGGGGTCTG
GGGCGGGGCGAGGAGGCCCCAAGAAGAAGCACCAGGAGGAACCGCACACCTTCACCACCTACCAGCTGCACCAG
CTGGAGCGGGCGTTTCGAGGCCTCTCACTACCCGGATGTGTACAGCCGTGAGGAGCTGGCAGCCAAGGTGCACCTA
CCTGAGGTGCGCGTGCAGGTGTGGTTCCAGAACC GCCGGGCCAAGTGGCGCCGCCAGGAGCGGCTGGAGTCAGGC
TCGGGTGCCGTGGCAGCTCCGAGACTCCCCGAGGCCCCAGCGTGCCGTTCGCCCCCCCCCGGCCATGTCGCTG
CCCCCTGGAGCCCTGGTTGGGCCCCGACCGCCGGCCGTGCCAGGCCTCCCCCGCCTCCTGGGCCCCGGGCCCCGGG
CTGCAAGCGTCCTTCGGGCCTCATGCCTTTGCTCCACCTTCGCAGATGGCTTCGCCCTGGAGGAGGCGTCCCTG
CGGCTGCTGGCCAAGGAACATGCACAGGCTCTGGACAGGGCTGGCCGCCAGCCTGAGCCTGCCGCCCTCCCCGG
CCCCCTCCTCGGCCCAACCCGAGAACC GGGGACGTGCCCTGGTGACAGCCACCACGCCTTGGCCTAGGCCGAGGT
CATGGAGCAACCGTGGTCAGGCCAGGCCACCACCCTGGGGAGCGGGACCAGAGAGACAGGCTGCTGGGTTCCCT
GCCCCATCCCGTCTCCACCCCCATCGCCACCCGTCTGTGGCAGCGGACTGGCCCCAGTGTCAGGCAGGAGG
TGACCCAAGTATTCTCAGGCCAGGTGCGGGGACCTCCTCCCCCTCCTGGGGCCTCAGTCTCCTGTCTGTTAATTGG
GCGTGGGGGCTCCGAGGTTTCGAGGGCTGCGAGGCTGTGGGTGGCGGGACCGCTGACTCTGTAAAGATGAGTGTA
ATCTCTCTGCTTCTCCTAATCCCCATCAGCAGAGCTGCCACTCTCCAGGCTCCCAGTCCCCCTGGAAATAACAAA
TAGCAGCAGCTCCCGCGAGCCTGGTCTCCTCTCACCGTGTGCTCGCCATGTGAGCACTCCCCCTCTCCGTGTGCC
CTGGACCTCGGGCACAGCTGTGAGCCATTCTATAGAGAGGGAAACCGGGCTTAGGCAGGAAGCCAGGTCCCCA
AAGTCGCACGGCCAGGAGTGGATGGAGCTGCCTTTTCAGACCCATCACCGGTCCTACCGTCCGGGGCACAGCGACA
GGTTCTGGAGAGAGGGTGGGTCCCGGGCCAGGTGCTGGTGGGCCTCCAGGTGGAGGCGGGCTGATGCTGGGTGTG
TCGTATCGTCAGACCGTTCTCACGTCCCCACAGACCCAGGCCCTGTGCATGTCCCCAGTGAGGCATGGCCA
GCATCTGCTCTGTCCAACCCAGTCGCATCGCCCAAGAGCTCTGAGCAAGGAGGCTGTCGCGGGGCGGAGAACCCG
CTGGGACTGGCAAGCACGGCTGGCCCAAGTGCAGCAGGAGGGGGCCCTGAGGCATGGGATGGGACAGTCTGGGCCA
GCGCCACCTCCCGGGACAGAAGTGCGGCACAGGGCAGGAGCTGCAGTAGCTACCTCCCCGTCTCCAGCCTGGG
CTCCCCAGATCACTCCAGATCACCAGGTCACCCCATCTCTAGGCGGCACCTCACACACAGTCCTGTGGTCCAA
CGCCCCGCCATCACCCAATGTACCGCACACCAGGCAAGTGGGGACACGGCAGTAAGCACAAAGAAAGATTTTTTTT
TTTTTAAAGCTAAACCAGGCCAGGTGCGGTGGCTCATGCCTGTAATCCAGTGCTTTGGGAGGCTGAGGTGGGAG
GATTGCTTGAGACCAGCCTGGGTGACACAGCAAGACCCCATCTCCACAAACGTTTTTAAATGTGCCGGGTGTAC
TGGTGCACACCTGTATCCAGCTACCCAAGAAGCTGAGGCAAGAGGATCACTTGAGCCCAGAAGGTGAGGCTG
CAGGGAGCTGTGATCACACTGCTGCACTCCAGCCTGTGCAACAGAGCCAGACCCTGACTCAATACAAATAAAAA
CAAATCTAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5174

MFLSPGEGPATEGGGLGPGGEEAPKKKHRRNRTTFTTYQLHQLERAFAEASHYPDVYSREELAAKVHLPEVRVQVWF
QNRRAKWRRQERLESGSGAVAAPRLPEAPALPFARPPAMSLPLEPWLGPGPFAVPGLPRLLGPGPGLQASFGPHA
FAPTFADGFALEEASLRLLAKEHAQALDRAWPPA

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FIGURE 5175

GGCCGGCGGGCGGGCGGGCGGGCGGGAGAGACCGCAGTGCGGGCCGGCGCTAGGACCCGCGGGGGCCTCCCAGGCC
GCGGCGCCTCCCGCTTTCCCCCACTCCCCGACCCTTCTTCGCCCCAAAATGAGGAAACGGAGCAACTCGCTCCA
AGTTGTGCAGCCGGGACCGCCTCGGGGTGTGCAGCCGGCTCGCGGAGGCCCTCCTGGGGGGCGGGCGCGGGGGCGCG
GCTCGGGGGCGCCCCCTGAGCAGAAAACAGGAAGAACCAGGCTCGGTCCAGTGGCACCCAGCTCCCTACCTCCTG
TGCCAGCCGACTGGCCTGTGGCAGGCCATTCCCAGCGTCCCCGACTGTGACCACTTGCTCAGTGTGCCTCTCACC
TGCCTCAGTTTCCCTCTGGGGGCGATGGCGGGGCGAGGCTCTCTGGTTTCCTGGCGGGCATTTCACGGCTGTGAT
TCTGCTGAGGAACTTCCCCGGGTGAGCCCCGCTTCCTCCGAGCCTGGCACCCCCCTCCCGTCTCAGCCAGGATG
CCAACGAGGCGCTGGGCCCCGGGCACCCAGTGTATCACCAAATGCGAGCACACCCGCCCAAGCCAGGGGAGCTG
GCCTTCCGCAAGGGCGACGTGGTCACCATCCTGGAGGCCTGCGAGAACAAGAGCTGGTACCGCGTCAAGCACCAC
ACCAGTGGACAGGAGGGGGCTGCTGGCAGCTGGGGCGCTGCGGGAGCGGGAGGCCCTCTCCGAGACCCCCAAGCTC
AGCCTCATGCCGTGGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAGCAGCTGCAGCCTCCCGAGGATGGG
CTGTTCCGTGGTGCGGGAGTCCGCGCGCCACCCGGCGACTACGTCTGTGCGTGAGCTTTGGCCGCGACGTATC
CACTACCGCGTGTGTCACCGCGACGGCCACCTCACAATCGATGAGGCCGTGTTCTTCTGCAACCTCATGGACATG
GTGGAGCATTACAGCAAGGACAAGGGCGCTATCTGCACCAAGCTGGTGAGACCAAAGCGGAAACACGGGACCAAG
TCGGCCGAGGAGGAGCTGGCCAGGGCGGGCTGGTTACTGAACCTGCAGCATTGACATTGGGAGCACAGATCGGA
GAGGGAGAGTTTGGAGCTGTCTGTCAGGGTGAGTACCTGGGGCAAAGGTGGCCGTGAAGAATATCAAGTGTGAT
GTGACAGCCCAGGCCTTCCTGGACGAGACGGCCGTCATGACGAAGATGCAACACGAGAACCTGGTGCCTCTCCTG
GGCGTGATCCTGCACCAGGGGCTGTACATTGTCTATGGAGCACGTGAGCAAGGGCAACCTGGTGAACCTTCTGCGG
ACCCGGGGTCGAGCCCTCGTGAACACCGCTCAGCTCCTGCAGTTTTCTCTGCACGTGGCCGAGGGCATGGAGTAC
CTGGAGAGCAAGAAGCTTGTGCACCGCGACCTGGCCGCCCGCAACATCCTGGTCTCAGAGGACCTGGTGGCCAAG
GTCAGCGACTTTGGCCTGGCCAAAGCCGAGCGGAAGGGGCTAGACTCAAGCCGGCTGCCCCGTCAGTGGACGGCG
CCCGAGGCTCTCAAACACGGGAAGTTACCAGCAAGTCGGATGTCTGGAGTTTGGGGTGCTGCTCTGGGAGGTC
TTCTCATATGGACGGGCTCCGTACCCTAAAATGTCACTGAAAGAGGTGTGCGAGGCCGTGGAGAAGGGGTACCGC
ATGGAACCCCCGAGGGCTGTCCAGGCCCCGTGCACGTCTCATGAGCAGCTGCTGGGAGGCAGAGCCCCGCCGCG
CGGCCACCTTCCGCAAACCTGGCCGAGAAGCTGGCCCGGGAGCTACGCAGTGCAGGTGCCCCAGCCTCCGTCTCA
GGGCAGGACGCCGACGGCTCCACCTCGCCCCGAAGCCAGGAGCCCTGACCCACCCGGTGGGGCCCTTGGCCCCA
GAGGACCGAGAGAGTGGAGAGTGCGGCGTGGGGGCACTGACCAGGCCCAAGGAGGGTCCAGGCGGGCAAGTCATC
CTCCTGGTGCCACAGCAGGGGCTGGCCACGTAGGGGGCTCTGGGCGGCCCGTGGACACCCAGACCTGCGAAG
GATGATCGCCCGATAAAGACGGATTCTAAGG

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FIGURE 5176A

GGAAGCCGAGCCTCTGCCAGCCCTGAGCTGGGAAGAAGCAGCTACCTCGGAGGCAGGGCGCGCAGGCGGGCGGCG
ATGAGAGGGGGCGCAGCCGCAGCCCCGCGCTGGGGAGCCCACCGCTAACCTGCACCCACCCACCCCTGCACAA
AAGAGCTGGCGGGCGCTGGCCACGTGCCCCGCTGGGTGACCTTCCTCGGATGCAGAATCCGCCCCCTGCGAGCATCCT
CTTCTCTCTAGGCTCTGAAGGCCCGGGGAGCGTGAGCGATGCCAGCTGCACCCGGGCAGGGCTCGCCTTTGTTT
GCCAGTAAGGAGGAGAGGCTGTCTCAGCTGCAGAGGGGTTCATCCCTGCTTCAAGCCAGTGCCCTTTCCAGCTCC
CATGGGGACCACCGAAGCCACGCTCCGGATGGAACAGTGGACGTGAAGGAGGAATGGCAGGACGAAGATCTTCC
CAGGCCACTCCCAGAAGAGACGGGGGTGGAAGTGTGGCAGCCCCGGTGGAGACACATCCTCTCCTCCCAACAC
GCTAAATTTCAACGAGCGCATCGTAAGAGGAAGACGCTGGTGGCCCCAGAGATCAACATTTCTCTGGATCAGAG
TGAGGGGTCCCTGCTGTCCGATGACTTCTTGGATACCCCTGATGACCTGGATATTAACGTGGATGACATCGAGAC
CCCCGATGAGACCGACTCGCTGGAGTTCTTGGGAATGGCAACGAACTGGAGTGGGAAGACGACACCCCGTGGC
CACCGCCAAGAATGCCCCGGGACAGCGCGGATCTATTTGGGGACGGCACGACGGAGGACGGCAGCGCCGCCAA
CGGGCGCCTGTGGCGGACAGTGATCATCGGGGAGCAAGAGCACCGTATAGACCTGCACATGATCCGGCCTTACAT
GAAAGTGGTCACCCACGGAGGGTACTACGGCGAAGGCCTCAACGCCATCATCGTCTTCGACGCTGCTTCTTCC
AGACAGCAGCCTCCCCGACTACCACTACATCATGGAGAACCTCTTCTGTACGTCAACAGCAGCTTAGAGCTCCT
GGTGGCTGAGGACTACATGATCGTGTACCTGAACGGTGGCACGCCCCGGCGGAGGATGCCTGGAATCGGCTGGCT
GAAGAAGTGCTACCAGATGATCGACCGGAGGTTGCGGAAAAACCTGAAGTCTTGATCATCGTCCACCCCTCGTG
GTTCAATTCGACTGTGCTGGCCATCTCTCGCCCTTTTCATCAGCGTCAAGTTCATCAACAAGATCCAGTACGTGCA
CAGCTTGAAGACCTGGAGCAACTCATCCCTATGGAACACGTCCAGATCCCAGACTGCGTCTGCAATACGAAGA
GGAAAGACTGAAGGCCAGGAGGGAGAGCGCGAGGCCCCAGCCGGAGTTGTGCTGCCAGGTCTGAAGAGAAGCC
AGAGGTGGCACCAGTGGAAAAACAGGTCTGCTCTGGTCTCAGAAGATCAGGAAACAAGCATGTCT**TGAG**GGCGACGT
GAGCATAACAAAGGACATGGAAGAAGATTCCAGATGCCAGAAAACCTCTGTCAGACGCCCACTGGCCCCAGATCT
CATCTGCTCATCTGAGTCCCAATCTTCCAAGGTGCCAGCCCCCTCCGTTTCATCTCTGAAACCCAGCATCCTT
TTCAGCTGCTTGAAAAACATTGTATTTTTTTTTTTTTTAAACGATGCAGTATTTGTGCGTTCCAGAAAAGGGCCCAGCT
CTGAGCCCCCTCACCTTCCACACTCACGAACCTCTCAGCCGAGGAAGGCAAGAAGCGCAGGGGGTGGCCCGCTGG
CGTCGGTGGCCTCCGCTCCTGCTCGCAGCCTCTGTGGTCTAGAGCTGGATACAAGATTCAAGACCCCTTCTCTTGCT
TGTCACCCGCTCCAGGTTGGAGCCACAGACACCCACCGCCACCCCGGCTGGGTCTGCGTCTTCTCTTGCTTT
CCCTCCAGAATGCGGCCCTCAGACCTAGAAGCTCAACCCCTATGAGGGCCACGTCCTGGGGTAGCTCCTGACCT
CCGACCTTATGTCCAAATTTACACCCATGTTTTTCAATTTGACCCGCCCCCTTCTCGCTCATAATGACACCCAG
CTCCTTTGAGAGGATCAGAGCCCATTGCACAAGAAGAGCGCTGCCAACCATCCTTGCTCTCCGATTGCAAAATG
ACACCCAGTAATCTAGAACATTCTCAAGCCCCCTTAACTCAGATGTCAAGCCACCGGGCAAACCCCGTCAATAC
CTCCACCAAGGAATGAGATATGTGGACCTCACTGCTCCCCAACCCAGCGTCAGGCTGGGACACGCCAACGCTG
TTCCGGGTTGGAACAGCAGAGGCTCAGAACTGGCTCTGAAATAGGCAGACCTAGCAAGAGGAAGATACAGGGTA
TCGGGCGTTTGAGTGTTCAGAAGTCATTGGGAAGATAAATCCAGTGCCTGGCCGACGCCACCTGCATTCAA
GCTTGGACCAGCGGTTCTTGTTCGGGAGGCAAATTTCCCTAGGAAAAAGAAGACAGACTTTTCTAATGTGGTCC
AAATGCGGATCACTGGTCAGATGGACTCTAGAAGCACTGAGCTCCCTGTCTCTGGAAGTATTTAAGAAAAGGCTG
GGCCAGGCACGATGGCTCACGCTGTAATCCCAGACTTTGGGAGGCCGAGGCAGGCGGATCACCTGAGGTGAGGA
GTTTGAGAACAGCCTGGCCAACATGGTGAAACCTCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGC
AGGTGCTGTAATCCCAGCTACTTGGGAGGCTGAGGCATGAGAATCACTTAAACCTGAGAGGCAGAGGTTACAGT
GAGCCAAGATCGTGCCACTGCATTCCAGCCTGGGCGACAGAGCAAGACTCTGTCTCAAAAAAATAAAAAATAAT
CAGGGCACAGTGGCTCATGCTGTAATCCCAGCACTCTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTGAGGAG
TTCAAGACCAGCCTGGTGAACATGGCGAAACCCCGTCTCTAATAAAAAATACAAAAATTAGCCGGGCATGGTGGT
CATGCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAACTGCTTGAACCCAGGAGGCAGAGGTTGCAGTG
ATCCAAGATCATGCCACTGCACTCCAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAATAAAAAAGAAAAAGAA
AGAATGGACAGTGTGTCAGAGAGTTGCTCACGAGTTTCCCTCTAATCCTAAATGTCTTATGTCTATCAGTCTG
AGCAGACGGTGAGTAGGGCGGGCACATTCTCCAGGCCCTTCTTCTAGCTCTGTGGTTGACCTCTCAGCAAGTGC
TATCCAGGCTGGGCCAACAGACCCACAATTAAGTGCCTCAGTGAAAGCGTCCAGTGATCTTGACCTGAGAC
AGCAAGGAATTGCATTTGGGGTTATTCCAACGATGATGGCAGGGAACGGTGGTATTTAGTGCTGAGGGGCAGTG
ATACAGAAAGATTTGCCCTGTGGGACAGGGTCTGCGCGAGTCCCATCCCCAAAGCCAGCAGCTCCTGCCATGA

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FIGURE 5176B

GGAAGACGGGGTTTCTGAGCAGGCTTATGCCTGCAGGTTCTGTGGAGCCACCGGCTGTGACGGGACACCTCTGG
GTCTCAGCATTGCCCTGGGGAGGCTGGGACATTTAGGGACATGGTAGGGTTTTAACATTTGTTTCCCAAATGTCA
AATCCCGGGCACAGGGGCAAGACCCTGTCCCGAATTCCACCCAGTGAATGGTGTGCTGCTGCCAAAGCCAAACACA
AGATGACAAAAGTGGCTGGGTACGGTGGCTCACGCCTATAATCCAGCACTTTGGGAGACCGAGACAGGTGGATC
ACCTGAGGTCAGGAGTTCGAGACCAGGCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAG
CTGGGTGTGGTGGCGCGCACCTGTAGTCCCAGCTACTCAGGAGGCTGAGGTAGAAGAATAGCTGGAACCCAGGAG
GCAGAGATTGCAGTCAGCCGAGATTGCACCACTGCACTCCAGCCTGGGAGACAGAGCAAGACTGACTCAAAAGAA
AAAAAATGACAGAAGCCTGATTATCAGACTGCCCGGAGGAGACAGGCTCCAGCAGATAGATGCCAGCCAGGCCCA
GCTGCCACGATTTGTCCCAGGTGACCAAAGGCACGCAGCTCCAGCATGAATCGTTCTAACCCAAACAGTGACAAGA
ACTGCTGGGCCTTAACCGTCATGGAAGACTGGGGCCGCTTCCAAGTCACAGACAGGAGACGGGGACAGGAAAGAA
CTCATTCCACCCAATCGGACACCTAATAATTGAGTGTCTACAGCAGCAATCAAGTGACAAGTGAGGCCCTACCTG
ACCCAGAAGGTGCCTGCCGGCTAAACATTCTGCCCCCACCAGAACTCCAGGGGGTCCGCCCCGTTATGCCGTGGC
CCACCCACGCCCCCTTTGGATCACCAGCAGTCACAGACAACAGGCAGGCGAAACTGAAGACCCCAACTCAGCCCCA
GCGGACCCCTCCAGAGCAAAAGAGGCCCCCGGCGAGGCCACCTGTGCGCAGGCATGCCGAGGTCAAACAGCCGGGG
CCACCGTTCCCAGCTGGGCCACGACCTGCACCGTCCACAGATGGGCTTTGAGATGGATTTGTATCAGGGTGGGGG
GTGTGGTTTGGCCAAAATGCAATGGACCCCGACCCCTCCTCGTAAAAGGATGTTGGGTTTCCCTCTGGTGACACA
TGGGATGCGTCATAAACCTCCCCCAAAGTCCTGGTCAGCAGCCCATCCTTCCAACGATGAGTTTTGCGGTTTTT
CAGAACAGAAATGATCACTACGATTGACGACGGTCGTGATGTTAAGACGTCGTCTCCATGAGCTTTGGGGGGACT
TTTATGTGGAATAAAGAAACTATCACTG

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FIGURE 5177

MGTEATLRMENVDVKEEWQDEDLPRPLPEETGVELLGSPVEDTSSPENTLNFNGAHRKRKTLVAPEINISLDQS
EGSLLSDDFLDTPDDLDINVDDIETPDETDSEFLGNGNELEWEDDTPVATAKNMPGDSADLFGDGTEDGSAAN
GRLWRTVIIGEQEHRIDLHMIRPYMKVVTHGGYYGEGLNAIIVFAACFLPDSSLPDYHYIMENFLYVISSLELL
VAEDYMIVYLNATPRRRMPGIGWLKKCYQMIDRRLRKNLKSIIIVHPSWFIRTVLAISRPFISVKFINKIQYVH
SLEDLEQLIPMEHVQIPDCVLQYEEERLKARRESARPQPEFVLPRSEEKPEVAPVENRSALVSEDQETSMS

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FIGURE 5178

ATGGTTAATTTTACGGTGGATCAGATCCGCGCCATCATGGACAAGAAGGCCAACATCCGCAACATGTCTGTTCATC
GCCCACGTGGACCATGGCAAGTCCACGCTGACAGACTCCCTGGTGTGCAAGGCGGGCATCATCGCCTCGGCCCGG
GCGGGGAGACACGCTTCACTGATACCCGGAAGGACGAGCAGGAGCGTTGCATCACCATCAAGTCAACTGCCATC
TCCCTCTTCTACGAGCTCTCGGAGAATGACTTGAACCTTCATCAAGCAGAGCAAGGACGGTGCCGGCTTCTCATC
AACCTCATTGACTCCCCCGGGCATGTGCACTTCTCCTCGGAGGTGACTGCTGCCCTCCGAGTCACCGATGGCGCA
TTGGTGGTGGTGGACTGCGTGTGAGGCGTGTGCGTGCAGACGGAGACAGTGTGCGGCAGGCCATTGCCGAGCGC
ATCAAGCCTGTGCTGATGATGAACAAGATGGACCGCGCCCTGCTGGAGCTGCAGCTGGAGCCCAGGAGCTCTAC
CAGACTTTCCAGCGCATCGTGGAGAACGTGAACGTCATCATCTCCACCTACGGCGAGGGCGAGAGCGGCCCATG
GGCAACATCATGATCGATCCTGTCTCGGTACCGTGGGCTTTGGGTCTGGCCTCCACGGGTGGGCCTTACCCTG
AAGCAGTTTGCCGAGATGTATGTGGCCAAGTTCGCCGCCAAGGGGGAGGGCCAGTTGGGGCCTGCCGAGCGGGCC
AAGAAAGTAGAGGACATGATGAAGAAGCTGTGGGGTGACAGGTACTTTGACCCAGCCAACGGCAAGTTCAGCAAG
TCAGCCACCAGCCCCGAAGGGAAGAAGCTGCCACGCACCTTCTGCCAGCTGATCCTGGACCCCATCTTCAAGGTG
TTTGATGCGATCATGAATTTCAAGAAAGAGGAGACAGCAAACTGATAGAGAACTGGACATCAAAGTGGACAGC
GAGGACAAGGACAAAGAAGGCAAACCCCTGCTGAAGGCTGTGATGCGCCGCTGGCTGCCTGCCGGAGACGCCTTG
TTGCAGATGATCACCATCCACCTGCCCTCCCCTGTGACGGCCAGAAAGTACCGCTGCGAGCTCCTGTACGAGGGG
CCCCCGGACGACGAGGCTGCCATGGGCATTAAGGCTGTGACCCCAAAGGCCCTCTTATGATGTATATTTCCAAA
ATGGTGCCAACTCCGACAAAGGTCGGTTCTACGCCTTTGGACGAGTCTTCTCGGGGCTGGTCTCCACTGGCCTG
AAGGTCAGGATCATGGGGCCCAACTATACCCCTGGGAAGAAGGAGGACCTCTACCTGAAGCCAATCCAGAGAACA
ATCTTGATGATGGGCGCTACGTGGAGCCCATCGAGGATGTGCCTTGTGGGAACATTGTGGGCCTCGTGGGCGTG
GACCAGTTCTTGGTGAAGACGGGCAACATCACCACCTTCGAGCACGCGCACAAACATGCGGGTGATGAAGTTCAGC
GTCAGCCCTGTTGTCAGAGTGGCGGTGGAGGCCAAGAACCCGGCTGACCTGCCCAAGCTGGTGGAGGGGCTGAAG
CGGCTGGCCAAGTCCGACCCCATGGTGCAGTGCATCATCGAGGAGTCGGGAGAGCATATCATCGCGGGCGCCGGC
GAGCTGCACCTGGAGATCTGCCTGAAGGACCTGGAGGAGGACCACGCCTGCATCCCCATCAAGAAATCTGACCCG
GTCGTCTCGTACCGCGAGACGGTCAGTGAAGAGTCGAACGTGCTCTGCCTCTCCAAGTCCCCCAACAAGCACAAAC
CGGCTGTACATGAAGGCGCGGCCCTTCCCCGACGGCCTGGCCGAGGACATCGATAAAGGCGAGGTGTCCGCCCGT
CAGGAGCTCAAGCAGCGGGCGCGCTACCTGGCCGAGAAGTACGAGTGGGACGTGGCTGAGGCCCGCAAGATCTGG
TGCTTTGGGCCCCGACGGCACCGGCCCAACATCCTCACCAGATCACCAAGGGTGTGCAGTACCTCAACGAGATC
AAGGACAGTGTGGTGGCCGGCTTCCAGTGGGCCACCAAGGAGGGCGCACTGTGTGAGGAGAACATGCGGGGTGTG
CGCTTCGACGTCCACGACGTACCCCTGCACGCCGACGCCATCCACCGCGGAGGGGGCCAGATCATCCCCACAGCA
CGGCGCTGCCTCTATGCCAGTGTGCTGACCGCCCAGCCACGCCTCATGGAGCCCATCTACCTTGTGGAGATCCAG
TGTCAGAGCAGGTGGTTCGGTGGCATCTACGGGTTTTTGAACAGGAAGCGGGGCCACGTGTTGAGGAGTCCCAG
GTGGCCGGCACCCCCATGTTTGTGGTCAAGGCCTATCTGCCCGTCAACGAGTCTTTGGCTTACCCGCTGACCTG
AGGTCCAACACGGGCGGCCAGGCGTTCCCCAGTGTGTGTTTGACCACTGGCAGATCCTGCCCGGAGACCCCTTC
GACAACAGCAGCCGCCCCAGCCAGGTGGTGGCGGAGACCCGCAAGCGCAAGGGCCTGAAAGAAGGCATCCCTGCC
CTGGACAACCTTCTGGACAAATTG**TAG**CGGCCCTTCTGCAGCGCCTGCCGCCCCGGGGACTCGCAGCACCCAC
AGCACACGTCTCTGAATTCTCAGACGACACCTGGAGACTGTCCGACACAGCGACGCTCCCCTGAGAGGTTTCT
GGGGCCCGCTGCGTGCCATCACTCAACCATAACACTTGATGCCGTTTTCTTTCAATATTTATTTCCAGAGTCCGGA
GGCAGCAGACACGCCCTCTTAGTAGGGACTTAATGGGCGGTTCGGGAGGGGGAGGCGGGATGGGACACCCAACA
CTTTTTCATTTCTTCAGAGGGAACTCAGATGTCCAACTAATTTTAACAAACGCATTAAGAGGTTTATTTGGG
TACATGGCCCGCAGTGGCTTTTGCCCCAGAAAGGGGAAAGGAACACGCGGGTAGATGATTTCTAGCAGGCAGGAA
GTCCTGTGCGGTGTACCATGAGCACTCAGCTGTACTAGTGCCATTGGAATAATAAATTTGATAAGGTGTGAAA

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FIGURE 5179

MVNFTVDQIRAIMDKKANIRNMSVIAHVDHGKSTLTDSLVCAGIIASARAGETRFTDTRKDEQERCITIKSTAI
SLFYELSENDLNFIKQSKDGAGFLINLIDSPGHVDFSSEVTAALRVTDGALVVDCVSGVCVQTETVLRQAI AER
IKPVLMMNKMDRALLELQLEPEELYQTFQRIVENVNVIIISTYGEGESGPMGNIMIDPVLGTVGFGSGLHGWAFTL
KQFAEMYVAKFAAKGEGQLGPAERAKKVEDMMKKLWGDYFDPANGKFSKSATSPEGKKLPRTFCQLILDPIFKV
FDAIMNFKKEETAKLIEKLDIKLDSKDKKEGKPLLKAVMRRWLPAGDALLQMITIHLPSVTAQKYRCELLYEG
PPDDEAAMGIKSCDPKGPLMMYISKMVPTSDKGRFYAFGRVFSGLVSTGLKVRIMGPNYTPGKKEDLYLKPIQRT
ILMMGRYVEPIEDVPCGNIVGLVGVDQFLVKTGTITTFEHAHNMRVMKFSVSPVVRVAVEAKNPADLPKLVEGLK
RLAKSDPMVQCIIEESGEHIIAGAGELHLEICLKDLEEDHACIPIKKSDFVVSRET VSEESNVLCLSKSPNKH
RLYMKARFPDGLAEDIDKGEVSARQELKQRARYLAEKYEWDAEARKIWCFGPDGTGNILTDITKGVQYLNEI
KDSVVAGFQWATKEGALCEENMRGVRFDVHDVTLHADAIHRGGQIIPTARRCLYASVLTAQPRLMETIYLVEIQ
CPEQVVGGIYGV LNRKRGHVFEE SQVAGTPMFVVKAYLPVNESFGFTADLRNTGGQAF PQCVFDHWQILPGDPF
DNSSRPSQVVAETRKRKGLKEGIPALDNFLDKL

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FIGURE 5180

CCCCTGCTCTCGGACTCGGGCTGCGGCGTCAGCCTTCTTCGGGGCTCGGCAGCGGTAGCGGCTCGCTCGCCTCA
GCCCCAGCGCCCCCTCGGCTACCCCTCGGCCCAGGCCCGCAGCGCCGCCCGCCCTCGGCCGCCCCGACGCCGGCCTG
GGCCGCGGCCGCGAGCCCCGGGCTCGCGTAGGCGCCGACCGCTCCCGGCCCGCCCCCTATGGGCCCCGGCTAGAGG
CGCCGCCGCGCCGGGCCCGGGAGCCCCGATGCTGGCCCGGAGGAAGCCGGTGCTGCCGGCGCTACCATCAACC
CTACCATCGCCGAGGGCCCATCCCCCTACCAGCGAGGGCGCCTCCGAGGCAAACCTGGTGACCTGCAGAAGAAGC
TGGAGGAGCTGGAACCTTGACGAGCAGCAGAAGAAGCGGCTGGAAGCCTTTCTACCCAGAAAGCCAAGGTCGGCG
AACTCAAAGACGATGACTTCGAAAGGATCTCAGAGCTGGGCGCGGGCAACGGCGGGGTGGTCACCAAAGTCCAGC
ACAGACCCCTCGGGCCTCATCATGGCCAGGAAGCTGATCCACCTTGAGATCAAGCCGGCCATCCGGAACCAGATCA
TCCGCGAGCTGCAGGTCCTGCACGAATGCAACTCGCCGTACATCGTGGGCTTCTACGGGGCCTTCTACAGTGACG
GGGAGATCAGCATTTGCATGGAACACATGGACGGCGGCTCCCTGGACCAGGTGCTGAAAGAGGCCAAGAGGATTC
CCGAGGAGATCCTGGGGAAAGTCAGCATCGCGGTTCTCCGGGGCTTGGCGTACCTCCGAGAGAAGCACCAGATCA
TGCACCGAGATGTGAAGCCCTCCAACATCCTCGTGAACCTCTAGAGGGGAGATCAAGCTGTGTGACTTCGGGGTGA
GCGGCCAGCTCATCGACTCCATGGCCAACTCCTTCGTGGGCACGCGCTCCTACATGGCTCCGGAGCGGTTGCAGG
GCACACATTACTCGGTGCAGTCGGACATCTGGAGCATGGGCCTGTCCCTGGTGGAGCTGGCCGTCGGAAGGTACC
CCATCCCCCGCCCGACGCCAAAGAGCTGGAGGCCATCTTTGGCCGGCCCGTGGTCGACGGGGAAGAAGGAGAGC
CTCACAGCATCTCGCCTCGGCCGAGGCCCGCCCGGGCGCCCCGTACGCGGTCACGGGATGGATAGCCGGCCTGCCA
TGGCCATCTTTGAACTCCTGGACTATATTGTGAACGAGCCACCTCCTAAGCTGCCCAACGGTGTGTTCACCCCCG
ACTTCCAGGAGTTTGTCAATAAATGCCTCATCAAGAACCCAGCGGAGCGGGCGGACCTGAAGATGCTCACAAACC
ACACCTTCATCAAGCGGTCCGAGGTGGAAGAAGTGGATTTTGCCGGCTGGTTGTGTAAAACCTGCGGTGAACCAG
CCCGGCACACCCACGCGCACCGCCGTGTGACAGTGGCCGGGCTCCCTCGGTCCCGCTGGTGACCTGCCCACCGTC
CCTGTCCATGCCCCGCCCTTCCAGCTGAGGACCGTGGCGCCTCCACCCACCCTCCTGCCTCACCTGCGGAGAGC
ACCGTGGCGGGGCGACAGCGCATGCAGGAACGGGGGTCTCCTCTCCTGCCGTCCTGGCCGGGGTGCCTCTGGGGA
CGGGCGACGCTGCTGTGTGTGGTCTCAGAGGCTCTGCTTCCTTAGGTTACAAAACAAAACAGGGAGAGAAAAAGC

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FIGURE 5181

GCTTCCGGCGGAAGCGGCCTCAACAAGGGAACTTTATTGTTCCCGTGGGGCAGTCGAGGATGTCGGTGAATTAC
GCGGCGGGGCTGTGCGCGTACGCGGACAAGGGCAAGTGCGGCCTCCCGGAGATCTTCGACCCCCGAGGAGCTG
GAGCGGAAGGTGTGGGAAC TGGCGAGGCTGGTCTGGCAGTCTTCCAGTGTGGTGTTCACACGGGTGCCGGCATC
AGCACTGCCTCTGGCATCCCCGACTTCAGGGGTCCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCCCCC
AAGTTCGACACCACCTTTGAGAGCGCGCGGGCCACGCAGACCCACATGGCGCTGGTGCAGCTGGAGCGCGTGGGC
CTCCTCCGCTTCCCTGGTCAGCCAGAACGTGGACGGGCTCCATGTGCGCTCAGGCTTCCCCAGGGACAAACTGGCA
GAGCTCCACGGGAACATGTTTGTGGAAGAATGTGCCAAGTGTAAGACGCAGTACGTCCGAGACACAGTCGTGGGC
ACCATGGGCCTGAAGGCCACGGGCCGGCTCTGCACCGTGGCTAAGGCAAGGGGGCTGCGAGCCTGCAGGGGAGAG
CTGAGGGACACCATCCTAGACTGGGAGGACTCCCTGCCCCGACCGGGACCTGGCACTCGCCGATGAGGCCAGCAGG
AACGCCGACCTGTCCATCACGCTGGGTACATCGCTGCAGATCCGGCCCAGCGGGAACCTGCCGCTGGCTACCAAG
CGCCGGGGAGGCCGCTGGTCATCGTCAACCTGCAGCCACCAAGCACGACCGCCATGCTGACCTCCGCATCCAT
GGCTACGTTGACGAGGTCATGACCCGGCTCATGGAGCACCTGGGGCTGGAGATCCCCGCCTGGGACGGCCCCCGT
GTGCTGGAGAGGGCGCTGCCACCCCTGCCCCGCCCCACCCCCAAGCTGGAGCCCCAAGGAGGAATCTCCCACC
CGGATCAACGGCTCTATCCCCGCCGGCCCCAAGCAGGAGCCCTGCGCCCAGCACACGGCTCAGAGCCCCGCCAGC
CCCAAACGGGAGCGGCCCCACCAGCCCTGCCCCCACAGACCCCCAAAAGGGTGAAGGCCAAGGCGGTCCCCAGC
TGACCAGGGTGCTTGGGGAGGGTGGGGCTTTTTGTAGAACTGTGGATTCTTTTCTCTCGTGGTCTCACTTTGT
TACTTGTTTCTGTCCCCGGGAGCCTCAGGGCTCTGAGAGCTGTGCTCCAGGCCAGGGTTACACCTGCCCTCCGT
GGTCCCTCCCTGGGCTCCAGGGGCTCTGGTGCGGTTCCGGGAAGAAGCCACACCCAGAGGTGACAGCTGAGCC
CCTGCCACACCCAGCCTCTGACTTGCTGTGTTGTCCAGAGGTGAGGCTGGGCCCTCCCTGGTCTCCAGCTTAAA
CAGGAGTGAACCTCCCTCTGTCCCCAGGGCCTCCCTTCTGGGCCCCCTACAGCCCACCTACCCCTCCTCCATGGG
CCCTGCAGGAGGGGAGACCCACCTTGAAGTGGGGGATCAGTAGAGGCTTGCACTGCCTTTGGGGCTGGAGGGAGA
CGTGGGTCCACCAGGCTTCTGGAAAAGTCCTCAATGCAATAAAAACAATTTCTTTCTTGCAA

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FIGURE 5182

MSVNYAAGLSPYADKGKCGLP E I F D P P E E L E R K V W E L A R L V W Q S S S V V F H T G A G I S T A S G I P D F R G P H G V W T M E E
R G L A P K F D T T F E S A R P T Q T H M A L V Q L E R V G L L R F L V S Q N V D G L H V R S G F P R D K L A E L H G N M F V E E C A K C K T Q Y V R
D T V V G T M G L K A T G R L C T V A K A R G L R A C R G E L R D T I L D W E D S L P D R D L A L A D E A S R N A D L S I T L G T S L Q I R P S G N L
P L A T K R R G G R L V I V N L Q P T K H D R H A D L R I H G Y V D E V M T R L M E H L G L E I P A W D G F R V L E R A L P P L P R P P T P K L E P K
E E S P T R I N G S I P A G P K Q E P C A Q H N G S E P A S P K R E R P T S P A P H R P P K R V K A K A V P S

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FIGURE 5183

TCCATAACCTGCTGTGGCTCCCCATTGCCAGGCAGTGTAGAGTTCTGAATACCTTGTGCTGGAAGCTGAAGCCCT
TCCTGCCCCAGCCCTGAATCACCTCTCCAACTTCAGCCCCCTCTGCTCCTGCTGCAGCCCCCAAACACTTGCA
TTTCTCCTAAACTCATGGGCTCTTCCCAGCACCCAGGCCTTTGTTTACCCCTTCTGTCTGATCTTCCCTCTCACC
CTTCAAGAAACTGCTTAGCCTCCTCCAGGAAGCCCTTCCACGTGCCCCAGGGCCCCCACCTCCACGGGGCTTCCC
CAGGCCCAGGTACCTCCTCTGATCCAGGCTTGACTCTTGGGGCCAGAGGATCTGTGTCCACCTGTCTCCCCAAG
ATCAAGGGCTTCTGGAGGGCAGGGCTTGGGCCCATGTGAGCATCGTCAGGCTCATTGCAGCAGCAGTGTGGTTG
AATAGAATAAGTCATTTTTGCCTTCGTGTGAATTCATCTCTCTCTCTGCTCTCCCTCTCTCTGTCTCTCTCC
AATTCTGCTCTGACTTGCTTTGTCTTTAACTCTTTATCTCTCTGTCTGTCTTGTCTATCCCCCTCTCCCTG
TTCTTGCAACTCACCTCTATTTCTGTTTCTGATTCCCTCTCTCTGTCTCCCTGTCTCTCTGTCTCTCTGATTT
TCTCTCTCTCCAACCTTCTCTCTATACCTCTCTGATTCTCCCTCTGTCTCTTTTTCTGTTCCCTCTCCCCGTCC
ATCTCTCCCGGCTGCCACCTTCAGGGGTCCCCACGGAGTCTGGACCATGGAGGAGCGAGGTCTGGCCCCCAAGT
TCGACACCACCTTTGAGAGCGCGCGGCCACGCAGACCCACATGGCGCTGGTGCAGCTGGAGCGCGTGGGCCTCC
TCCGCTTCTGGTCAGCCAGAACGTGGACGGGCTCCATGTGCGCTCAGGCCTCCCTTCTGGGCCCCCTACAGCCC
ACCCTACCCCTCCTCCATGGGCCCTGCAGGAGGGGAGACCCACCTTGAAGTGGGGGATCAGTAGAGGCTTGCACT
GCCTTTGGGGCTGGAGGGAGACGTGGGTCCACCAGGCTTCTGGAAAAGTCCTCAATGCAATAAAAAACAATTTCTT
TCTTGC

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FIGURE 5184

CAAAAGGACAGATGCAGAGGACAGGCGCCAGGCACAGATACCATCTCCCTTCCCCAAGCCAGCTGCCCCCAACCC
TCCCCCTGCCCGAATTAGTCCTCTGGGGCGGGAGCGGGGCACAGAGCAGAGCCCTCTTGGGGGAGGGGAAGCCC
GATCCGCACCCACCCTTCCTTTGCCCCCTCTTCCTTCTGCTGCTCCAATATCAATTTACAGCCAGTGACCTCTCC
ACCAATTTGCACATCCCCACTCTCCCGGTCCGTTTACCGCCAGACATCGGTTCCATTTTCGACCCTCACTGGCGG
TCATTCCCAACCCCTCTGCTGGTCAATTTACCCCTTTTGGCGGTCAAGTGCAGTCCCCCATTTCCCGGGCAATT
TCCCCCTCCCCCTCCTTCTCCCTCTCCCTTCCCTTCCCTCAGCAGTGTCACTCCAGCTGCTCCCCACCTCCCGCGC
TCCGCGCTCGCTGCGGCCAGTCTCGGGCGTCCCGGTCAGTGTCCAGCTGCCGCGGCCTCGGCCCGGCGACTCCC
GCCCCAGCCCCCTTCCCTCCGCGGGCAGCGGCTCCCTCCCTCCCCAGAACAGCTGAAGGTCTCAGTCACCTCC
GAGGGGAGCGCAGGGGGAGGGGAGGGGACGCGCGGAGGGGAGGTGGGGGAGCCTTGACGCTGCTGCC
GGGACGCGGGCCGGGGCTGGTGGGAACAGGGGCGTCTCTGCGCGCCCCCTCCCCAGCGTCCACCTCCCGGC
GGCGGCGGGGAAAGTCTCTCCGAAAGCGTGAAGGGGGATTGGAGGAGGTTTTTATTTCCCTTTGTGCGGGTGGCT
GGGGCCGGATCGAGGCGGCGGGGCGCGGGACTGGGGGCTCCCCGCTGAGCCGAGAGGAGCGCGACAAAGGATG
CGTCCCGCGGGGTACAGTCTCCGCGGCCCACTTTGCGCGCGGCGCCGCGCCCCCTGGGGAGCCCGCCGCTG
CGCTGAGAACCAGGCGTCCGGGCTGGGAGAGGGGCGGGAGCGTCCGAGGTGGCGCTGGCCCCGATCTCCCGA
CCCCAGGAAGGGATCCCGGAGCTTCTTGAGGCGGCGGGCGGCGGCGTGTGCTCCAGGGAACCGCGCTGCCGCGG
AAACTCCGCGCGCCTCCGCGGATGCCCCCTCGCCCTAGCCCCCAGCGCGGGGTTTGGGGCCCTGCGAGGTCCCC
CCTTCCCCCGCGGTGCTTCCCAAGCTGGGCTAAGGCGGGCTTCTCTTCCCTCCCTCCTCTGTGCGCTCCTTTTCTCT
CCCCCTCGTTACCTTTTCTTCCCTCTATCCATCCAGAGCCCCGCCAAAGGGCGCACCTGATCTTTCTCATCCT
TCCCTGCTCTTCCCTTCCCTCTCCACCTCCTCCTCCTTGGGGAAGGGGCCCCGAGAAAGGGCATGTGGGGGCC
CCTCTGACAGTGGCCCGATTGGGGTGACAGGCGCCCAATGGCCAAGTGGCTACGGGACTACCTGAGCTTTGGGG
GTGCGAGGCCCCCTCCGAGCCGCCCCACCCCGACTACACCGAGAGCGACATCCTGAGGGCCTACCGCGCGCAGA
AGAACCTGGACTTCGAGGACCCCTATGAGGACGCGGAGAGCCGCTTGGAGCCGGACCCCGCGGGCCCTGGGGACT
CCAAGAACCCCGGAGATGCCAAGTATGGTTCTCCCAAGCACCGGCTCATCAAGGTGGAGGCTGCGGATATGGCCA
GAGCCAAGGCCCTTCTGGGCGGCCCCGGGGAGGAGCTGGAAGCCGACACTGAGTATTTAGACCCCTTTGATGCTC
AGCCTCATCCTGCACCCCGGATGATGGGTACATGGAGCCCTACGATGCCCAATGGGTGATGAGTGAACCTCCCG
GCAGAGGGGTGCAGCTCTATGACACCCCTTATGAGGAACAGGACCCAGAGACAGCAGATGGACCCCTTCTGGGC
AGAAGCCTCGGCAGAGCCGGATGCCCCAGGAAGATGAACGGCCAGCAGATGAGTATGATCAGCCCTGGGAGTGGA
AGAAAGACCACATCTCCAGGGCGTTTGCAGTGCAGTTTGACAGTCCAGAGTGGGAGAGGACTCCAGGCTCAGCCA
AGGAGCTCCGGAGACCTCCGCCCAGAACAGCCCCAGCCTGCGGAGCGTGTGGACCCAGCCCTGCCCTGGAGAAAC
AGCCGTGGTTTTATGGCCCCCTGAACAGGGCGGATGCAGAGAGCCTCCTGTCCCTCTGCAAGGAAGGCAGCTACC
TAGTGC GGCTCAGTGAGACCAACCCCCAGGACTGCTCCTTGTCTCTCAGGAGCAGCCAGGGCTTCTGCACTGA
AGTTGCGCGGACCCGTGAGAACCAGGTGGTGTGGGCCAACACAGCGGGCCCTTCCCCAGCGTGCCCGAGCTCG
TCCTCCACTACAGTTACGCCCCACTGCCGCTGCAGGGTGGCGAGCATCTGGCTCTGCTGTACCCCGTGGTCACGC
AGACCCCCTGACAGTGACCCTCGGCCCCCTTTTGAGTCCTCGGGCCAGAATCGTATCCCAAAGCCCTCCCATGG
CCTAGAAAATAAATAAGTTATTGTT

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FIGURE 5185

MAKWLRDYLSTFGGRRPPPQPPTPDYTESDILRAYRAQKNLDFEDPYEDAESRLEPDPAGPGDSKNPGDAKYGSPK
HRLIKVEAADMARAKALLGGPGEELEADTEYLDPFDAQPHAPPPDDGYMEPYDAQWVMSELPGRGVQLYDTPYEE
QDPETADGPPSGQKPRQSRMPQEDERPADEYDQPWEWKDTHISRAFAVQFDSPEWERTPGSAKELRRPPRSPQP
AERVDPALPLEKQPWFHGPLNRADAESLLSLCKEGSYLVRLSETNPQDCSLSLRSSQGFLHLKFARTRENQVVLG
QHSGFFPSVPELVLYSSRPLPVQGAEHLALLYPVVTQTP

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FIGURE 5186

ACCCAGCGTGCGCGGGGCCCGCGGGCCGGGGCCGGGGTGACCTGGGGCTGCAGCC**ATGGA**AGAACAGAGGGAGGCCC
TGAGGAAGATCATCAAAACACTGGCTGTGAAGAATGAAGAAATTCAGAGCTTTATCTACTCCCTGAAACAGATGC
TGCTGAACGTGGAGGCCAACTCGGCGAAGGTGCAGGAGGACCTCGAAGCAGAGTTCCAGTCCCTCTTCTCCCTCC
TGGAGGAGCTGAAAGAAGGCATGCTTATGAAGATAAAACAGGACCGTGCCAGCCGCACCTACGAGCTGCAGAACC
AGCTGGCTGCCTGCACGCGGGCCCTGGAGAGCTCCGAGGAGCTTCTGGAGACAGCCAACCAGACTCTGCAGGCCA
TGGACAGCGAGGACTTTCCTCAGGCTGCCAAGCAAATCAAAGATGGAGTGACCATGGCCCTGCCTTCCGGCTAT
CATTGAAAGCGAAGGTCAGTGACAACATGAGTCACCTCATGGTGGACTTCGCGCAAGAGCGGCAGATGCTACAGG
CACTCAAGTTCCCTGCCTGTGCCCAGCGCACCCCGTGATCGACCTGGCTGAGTCCCTGGTGGCAGATAACTGTGTGA
CCCTGGTGTGGCGCATGCCGGATGAGGACAGCAAGATTGACCACTACGTGCTGGAGTACCGGCGGACCAACTTCG
AGGGCCCCGCCCCGCCTCAAGGAGGACCAGCCCTGGATGGTTCATCGAGGGCATCCGGCAGACAGAGTACACCCTGA
CAGGTCTCAAGTTTGACATGAAATACATGAACTTCCGTGTGAAGGCCTGTAACAAGGCAGTTGCAGGAGAGTTCT
CTGAGCCGGTGACTCTGGAGACACCAGCGTTTCATGTTCCGCCTGGATGCGTCCACATCCCACCAAGAACTGCGGG
TGGATGATCTCTCCGTGGAGTGGGACGCTATGGGCGGGAAGGTGCAGGATATCAAGGCTCGCGAGAAAGATGGCA
AGGGGCGGACGGCGTCTCCCATCAACTCCCCAGCCAGAGGTACTCCATCTCCCAAGAGGATGCCCTCAGGTCTGTG
GGGGACGGGACCGCTTCACCGCTGAGTCCTACACAGTTCTGGGGGACACGCTGATCGACGGCGGGGAGCATTACT
GGGAGGTGCGCTACGAGCCGGACAGCAAGGCGTTCGGCGTGGGCGTGGCCTACCGCAGCCTGGGCCGCTTCGAGC
AACTGGGCAAGACGGCCGCCTCCTGGTGCCTGCACGTCAACAATTGGCTGCAGGTCAGCTTCACGGCCAAGCACG
CCAACAAGGTCAAGGTGCTGGACGCCCCCGTGGCCGACTGCCTGGGTGTGCACTGTGACTTCCACCAAGGCCTCC
TGTCTTCTACAATGCCCGCACCAACAAGTGCTGCACACTTTCAAGACCAGGTTACACAGCCGCTGCTGCCTG
CTTTCACGGTATGGTGTGGCAGCTTCCAGGTGACGACAGGCCTGCAGGTCCCCAGTGCTGTGCGCTGCCTGCAAA
AGCGAGGCAGTGCTACCAGCAGCTCCAACACCAGCCTCACCT**TAG**CCCCCAGGCACCCACCCAGCTGGGGTGTTT
TTGGGGGAGTCGCCGCCAAGCCCAGGCTGCTGGAGCCAGGCACCCCTCCTCTGTCACTTGCTGCTTGGAGCCTTAA
CTCCAGATGGGGGGGTACCAAGAGGGAGTGGGCACCCTGGCGGGCCCTCTCCCCACCTCACCTCTTAATAAAGG
TCAGACACTGGCCAGGCAAAAAAAAAAAAAAAAAA

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FIGURE 5187

MEEQREALRKIIKTLAVKNEEIQSFIYSLKQMLLNVEANSKVVQEDLEAEFQSLFSLLEELKEGMLMKIKQDRAS
RTYELQNQLAACTRALESSEELLETANQTLQAMDSDFPQAAKQIKDGVTMAPAFRLSLKAKVSDNMSHLMVDFA
QERQMLQALKFLPVPSAPVIDLAESLVADNCVTLVWRMPDEDSKIDHYVLEYRRTNFEGPPRLKEDQPWMVIEGI
RQTEYTLTGLKFDKMYMNFVRKACNKAVAGEFSEPVLTETPAFMFRLDASTSHQNLRVDDLSVEWDAMGGKVQDI
KAREKDGKGRITASPINSPARGTPSPKRMPSGRGGRDRFTAESYTVLGDTLIDGGEHYWEVRYEPDSKAFGVGVAY
RSLGRFEQLGKTAASWCLHVNNWLQVSFTAKHANKVKVLDAPVPDCLGVHCDHFHQGLLSFYNARTKQVLHTFKTR
FTQPLLPAFTVWCGSFQVTTGLQVPSAVRCLQKRGSAATSSSNTSLT

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FIGURE 5188

GCGGCGGGCGGCAGC**ATGT**CGGTGGCGGGGCTGAAGAAGCAGTTCTACAAGGCGAGCCAGCTGGTCAGTGAGAAG
GTCGGAGGGGCGGAGGGGACCAAGCTGGATGATGACTTCAAAGAGATGGAGAAGAAGGTGGATGTCACCAGCAAG
GCGGTGACAGAAGTGCTGGCCAGGACCATCGAGTACCTGCAGCCCAACCCAGCCTCGCGGGCTAAGCTGACCATG
CTCAACACGGTGTCCAAGATCCGGGGCCAGGTGAAGAACCCCGCTACCCGAGTCGGAGGGGCTTCTGGGCGAG
TGCATGATCCGCCACGGGAAGGAGCTGGGCGGCGAGTCCAACCTTTGGTGACGCATTGCTGGATGCCGGCGAGTCC
ATGAAGCGCCTGGCAGAGGTGAAGGACTCCCTGGACATCGAGGTCAAGCAGAACTTCATTGACCCCTCCAGAAC
CTGTGCGAGAAAGACCTGAAGGAGATCCAGCACCACTGAAGAACTGGAGGGCGCGCCTGGACTTTGACTAC
AAGAAGAAGCGGCAGGGCAAGATCCCCGATGAGGAGCTACGCCAGGCGCTGGAGAAGTTCGAGGAGTCCAAGGAG
GTGGCAGAAACCAGCATGCACAACCTCCTGGAGACTGACATCGAGCAGGTGAGTCAGCTCTCGGCCCTGGTGGAT
GCACAGCTGGACTACCACCGGCAGGCCGTGCAGATCCTGGACGAGCTGGCGGAGAAGCTCAAGCGCAGGATGCCG
GAAGCTTCCTCAGCCCTAAGCGGGAGTATAAGCCCAAGCCCCGGGAGCCCTTTGACCTTGAGAGCCTGAGCAG
TCCAACGGGGGCTTCCCCTGACACAGCCCCAAGATCGCAGCTTCATCGTCTTTCCGATCTTCCGACAAGCCC
ATCCGGACCCCTAGCCGGAGCATGCCGCCCTGGACCAGCCGAGCTGCAAGGCGCTGTACGACTTCGAGCCCGAG
AACGACGGGGAGCTGGGCTTCCATGAGGGCGACGTACACGCTGACCAACCAGATCGATGAGAACTGGTACGAG
GGCATGCTGGACGGCCAGTCGGGCTTCTTCCCGCTCAGCTACGTGGAGGTGCTTGTGCCCCCTGCCGCAG**TGACTC**
ACCCG**T**GTCGCCCGCCCCGCCCCCTCCGTCCACACTGGCCGGCACCCCTGCTGGGTCTCCTGCATTCCACGGAGCC
CCTGCTGCCAGGGCGGTGTCTGAGCCTGCCGGCGCCACCTGGGCCCGGCCCTTGAGGTACTCCCTGAGCAGGAC
CCCACACTTGGGTGGGGGGGCTTATCTGGGTGGGTGGGGATGCCGTGTTTACACTAGCGCTGACTCCCAACGGTGA
CGGCTCCCTTCCCCACTCCATGGCGCCAGCCTCCTCCCCCGCTCCCCAACCTTCTCGCCAGCTGGCCGAGGCGGG
GCAACACTAAGGTGCTCTTAGAAACACTAATGTTCTCTGGGGCAGCCCCACCTCCGTCTGACCCGACGGGGG
CCCGGCCCACTGCCTACCCTCGAGTCCCGCAGCCTTAACAGGATGGGATCGAGGGTCCCCATGGGGTGGCTCAGA
GATAGGACCCCTGGTTTTTAAATCCCTCCCAGCCTGGTGCTGGTGATGGGCCCTGGCCCTACTCCAGGGCCAATGCA
CCCCCGCTCACACACGCACTCCTTCTCCTCAAGGCCAGGGCAGAGGGCCTCACCGCCTCCCGGGCCTGCTGTCA
GCTTGCAGCCCGGGGACAGAGGCCAGCTGGGATCTGCCTGAGGACAGAGAACATGGTCTCCTGCAGGGCCCTGCC
TCCCAAGCCCCGCCCTCAGAAAGCCAAGTACCTTTTTCAGCTTTTAACTGCCCCCATCCCAACCCAGGGAGGCCT
GTGTCACTCTGGCACAAGCTGCCACCACCAGCCACCCACACCCACCCAGCACACCTCACACGGGACCACAGCCG
CGCTGCCGAGGGCCAAGCACAAAGGTTCCAGTGAGCGCATGTCCAGCCCTGGTGGCCAGGCTCCCCTTGCTGAG
CCGCTGCCACTTCACCCTGTGGGAAGTGGCCCCAGCCATCTCCTCTAGACCAAGGCAGGCAGCCCCGACATCTGC
TTCTCTATCGCCCAATGCAAAATCGATGAAATGGGGAGTTCTCTGGGCCAGGCCACATTACATTCCCCTCCCT
CTGTGGTCCAGTGAAGCTCCGGACCCAGGCTCTGCTCTGCCCTGCCCTGCACCCCTCGTCAGAAGTACATGA
GGGGCGCAGAGATGAGCACACAGCTTTGGGCACGGTCCAGGGCAAAGTGAATGTACGCCTGAATTTTGTAACA
GAAGTATTAAATGTCTCTTTCTAC

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FIGURE 5189

MSVAGLKKQFYKASQLVSEKVGGAEGTKLDDDFKEMEKKVDVTSKAVTEVLARTIEYLQPNPASRAKLTMINTVS
KIRGQVKNPGYPQSEGLLGECMIRHGKELGGESNFGDALLDAGESMKRLAEVKDSL DIEVKQNFIDPLQNLCEKD
LKEIQHHLKKLEGRRLDFDYKKKRQ GKIPDEELRQALEKFEE SKEVAETSMHNLLET DIEQVSQLSALVDAQLDY
HRQAVQI LDELAEKLKRRMREASSRPKREYKPKPREPFDLGEPEQSNGGFPCTTAPKIAASSSFRSSDKPIRTPS
RSMPPLDQP SCKALYDFEPENDGELGFHEGDVITLTNQIDENWYEGMLDGQSGFFPLSYVEVLVPLPQ

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FIGURE 5190

TTTTCTTCCGGGGGCTGGTCTCCGGCGGCCCCGTCCCCGACTGGGCCCCGTGCCCCCCCCGCCCCGCGGCCCCC
GCCGCCGGGCCAGCCGCCACCAATGAAGAAATTCTTTAGGAGTTCAAGGCCGACATCAAGTTCAAGAGCGCGGGA
CCCCGTCAGAAGCTCAAAGAGTCCGTGGGGGAAAAGGCCACAAAGAGAAGCCCAACCAGCCAGCCCCAGGCCG
CCCCGCCAGGGACCCACCAATGAGGCACAGATGGCAGCCGCTGCTGCCCTAGCCCGGTGGAGCAGAAGCAGTCC
CGGGCCTGGGGCCCCACATCGCAGGACACCATCCGAAACCAGGTGAGAAAGGAACTTCAAGCCGAAGCCACCGTC
AGCGGGAGCCCCGAGGCCCCAGGGACCAACGTGGTATCTGAGCCCAGAGAGGAAGGCTCTGCCACCTGGCTGTG
CCTGGCGTGTACTTCACCTGTCCGCTCACTGGGGCCACCCTGAGGAAGGACCAGCGGGACGCCTGCATCAAGGAG
GCCATTCTCTTGCACTTCTCCACCGACCCAGTGGCCGCCTCCATCATGAAGATCTACACGTTCAACAAAGACCAG
GACCGGGTGAAGCTGGGTGTGGACACCATTGCCAAGTACCTGGACAACATCCACCTGCACCCCGAGGAGGAGAAG
TACCGGAAGATCAAGCTGCAGAACAAGGTGTTTCAGGAGCGCATTAAGTGCCTGGAAGGGACCCACGAGTTTTTT
GAGGCCATTGGGTTCAGAAAGGTGTTGCTTCCCGCCCAGGATCAGGAGGACCCCGAGGAGTTCTACGTGCTGAGC
GAGACCACCTTGCCCCAGCCCCAGAGCCTGGAGAGGCACAAGGAACAGCTGCTGGCTGCGGAGCCCGTGCGCGCC
AAGCTGGACAGGCAGCGCCGCTCTTCCAGCCCTCGCCCTGGCCTCGCAGTTTGAAGTGCCTGGGGACTTCTTC
AACCTCACAGCAGAGGAGATCAAGCGGGAGCAGAGGCTCAGGTCCGAGGCGGTGGAGCGGCTGAGCGTGCTGCGG
ACCAAGGCCATGCGGGAGAAGGAGGAGCAGCGGGGGCTGCGCAAGTACAACCTACACGCTGCTGCGCGTGCGCCTC
CCCGATGGCTGCCTCCTGCAGGGCACTTTCTACGCTCGGGAGCGGCTGGGGGCGGTGTACGGGTTCGTCCGGGAG
GCCCTGCAGAGCGACTGGCTGCCTTTTGAGCTGCTGGCCTCGGGAGGGCAGAAGCTGTCCGAGGACGAGAACCCTG
GCCTTGAACGAGTGCGGGCTGGTGCCCTCTGCCCTCCTGACCTTCTCGTGGGACATGGCTGTGCTGGAGGACATC
AAGGCCGCGGGGGCCGAGCCGACTCCATCCTGAAACCCGAGCTCCTGTGAGCCATCGAGAAGCTCTTGTGAAAT
AAAAGCAGGGTTGGCCTCAGCCCTGTGGGTCTGTCTCATGCTCTCCCTGTTTCTCTCCCCGCCACCCAGGGCCT
CCAAGCCACCTCTGGAAATACTTGGCTCTGCCCCATGGGCACGGGAGGGGCGCCAGCCGTGGAGCTGTGGAAATTG
GGCCCCGTGGCAGAGCCCCCATCCCTTGGGGGCTGTGGGGATGCGCCCAAGCCCCCGAGGGAGAGGCCTGGGGAC
ACCAAC

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FIGURE 5191

MKKFFQEFKADIKFKSAGPGQKLKESVGEKAHKEKPNQPAPRPPRQGPTNEAQMAAAAALARLEQKQSRWGPTS
QDTIRNQVRKELQAEATVSGSPEAPGTNVVSEPREEGSAHLAVPGVYFTCPLTGATLRKDQORDACIKEAILLHFS
TDPVAASIMKIYTFNKDQDRVKLGVDTI AKYLDNIHLHP EEEKYRKIKLQNKVFQERINCLEGTHEFFEAIGFQK
VLLPAQDQEDPEEFYVLSETTLAQPSLERHKEQLLAAEPVRAKLDRQRRVFQPSPLASQFELPGDFFNLTAEEI
KREQRLRSEAVERLSVLR TKAMREKEEQRGLRKYN YTLRVRLPDGCLLQGT FYARERLGAVYGFVREALQSDWL
PFELLASGGQKLSEDENLALNECGLVPSALLTF SWDMAVLEDIKAAGAEPDSILKPELLSAIEKLL

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FIGURE 5192

GTCTACCCGCCCCCTGCCCTGAGGACCCTAGTCCAACATGGCGGCGCCCAGCGGAGGGTGGAACGGCGTCGGCGCG
AGCTTGTGGGCCGCGCTGCTCCTAGGGGCCGTGGCGCTGAGGCCGGCGGAGGCGGTGTCCGAGCCCACGACGGTG
GCGTTTGACGTGCGGCCCGGCGGCGTCGTGCATTCTTCTCCATAACGTGGGCCCCGGGGACAAATATACGTGT
ATGTTCACTTACGCCTCTCAAGGAGGGACCAATGAGCAATGGCAGATGAGTCTGGGGACCAGCGAAGACCACCAG
CACTTCACCTGCACCATCTGGAGGCCCCAGGGGAAGTCCTATCTGTACTTCACACAGTTCAAGGCAGAGGTGCGG
GGCGCTGAGATTGAGTACGCCATGGCCTACTCTAAAGCCGCATTTGAAAGGGAAAGTGATGTCCCTCTGAAAAC
GAGGAATTTGAAGTGACCAAAACAGCAGTGGCTCACAGGCCCGGGGCATTCAAAGCTGAGCTGTCCAAGCTGGTG
ATTGTGGCCAAGGCATCGCGCACTGAGCTGTTGACCAGCAGCCCTGTTGCGGGTGGCACCTTCTCATCTCCGGTGA
AGCTGAAGGGGCCCTCCTGGCTCCCAACAGCTTCTCAGTTCCCACTTCCTGCTGAGCTCTTCTGGACTCAGGATC
GCAGATCCGGGGCACAAAGAGGGTGGGGAACATGGGGGCTATGCTGGGGAAAGCAGCCATGCTCCCCCGACCTC
CAGCCGAGCATCCTTCATGAGCCTGCAGAACTGCTTTTCTATGTTTACCCAGGGGACCTCCTTTCAGATGAACTG
GGAAGAGATGAAATGTTTTTTCATATTTAAATAAATAAGAACATTAAAAAGC

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FIGURE 5193

MAAPSGGWNGVGASLWAALLLGAVALRPAEAVSEPTTVAFDVRPGGVVHSF SHNVGPGDKYTCMFTYASQGGTNE
QWQMSLGTSEDHQHFTCTIWRPQGKSYLYFTQFKAEVGAIEIYAMAYSKAAFERESDVPLKTEEFVTKTAVAH
RPGAFKAELSKLVIVAKASRTEL

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FIGURE 5194A

AAGGTGCCTGAGCCGGCGGGTCCCCTGTGTCCGCCGCGGCTGTGCTCCCCGCTCCCGCCACTTCCGGGGTTCGCA
GTCCCGGGCATGGAGCCGCGACCGTGAGGCGCCGCTGGACCCGGGACGACCTGCCCAGTCCGGCCGCCGCCCCAC
GTCCCGGTCTGTGTCCACGCCTGCAGCTGGAATGGAGGCTCTCTGGACCCTTTAGAAGGCACCCCTGCCCTCCT
GAGGTCAGCTGAGCGGTTAATGCGGAAGGTTAAGAACTGCGCCTGGACAAGGAGAACACCGGAAGTTGGAGAAG
CTTCTCGCTGAATTCGAGGGGGCTGAGAGGATGGCCACCACCGGGACCCCAACGGCCGACCGAGGCGACGCAGC
CGCCACAGATGACCCGGCCGCCGCTTCCAGGTGCAGAAGCACTCGTGGGACGGGCTCCGGAGCATCATCCACGG
CAGCCGCAAGTACTCGGGCCTCATTGTCAACAAGGCGCCCCACGACTTCCAGTTTGTGCAGAAGACGGATGAGTC
TGGGCCCCACTCCCACGCTCTACTACCTGGGAATGCCATATGGCAGCCGAGAGAACTCCCTCCTCTACTCTGA
GATTCCCAAGAAGGTCCGGAAGAGGCTCTGCTGCTCCTGTCTGGAAGCAGATGCTGGATCATTTCAGGCCAC
GCCCCACCATGGGGTCTACTCTCGGGAGGAGGAGCTGCTGAGGGAGCGGAAACGCTGGGGGTCTTCGGCATCAC
CTCCTACGACTTCCACAGCGAGAGTGGCCTCTTCTCTTCCAGGCCAGCAACAGCCTCTTCCACTGCCGCGACGG
CGGCAAGAACGGCTTCATGGTGTCCCCTATGAACCGCTGGAAATCAAGACCCAGTGCTCAGGGCCCCGGATGGA
CCCCAAAATCTGCCCTGCCGACCTGCCTTCTTCTCCTTCATCAATAACAGCGACCTGTGGGTGGCCAACATCGA
GACAGGCGAGGAGCGGCGGCTGACCTTCTGCCACCAAGGTTTATCCAATGTCTGGATGACCCCAAGTCTGCGGG
TGTGGCCACCTTCGTCATACAGGAAGAGTTCGACCGCTTCACTGGGTACTGGTGGTGGCCACAGCCTCCTGGGA
AGGTTTCAGAGGGCCTCAAGACGCTGCGAATCCTGTATGAGGAAGTCGATGAGTCCGAGGTGGAGGTCATTACGCT
CCCCCTCTCTGCGCTAGAAGAAAGGAAGACGGACTCGTATCGGTACCCAGGACAGGCAGCAAGAATCCCAAGAT
TGCTTGAACTGGCTGAGTTCAGACTGACAGCCAGGGCAAGATCGTCTCGACCCAGGAGAAGGAGCTGGTGCA
GCCCTTCAGCTCGCTGTTCGGAAGGTGGAGTACATCGCCAGGGCCGGGTGGACCCGGGATGGCAAATACGCCTG
GGCCATGTCTCTGGACCGGCCCCAGCAGTGGCTCCAGCTCGTCTCTCTCCCCCGGCCCTGTTTCATCCCAGAC
AGAGAATGAGGAGCAGCGGCTAGCCTCTGCCAGAGCTGTCCCCAGGAATGTCCAGCCGTATGTGGTGTACGAGGA
GGTCACCAACGCTTGATCAATGTTTCATGACATCTTCTATCCCTTCCCCCAATCAGAGGGAGAGGACGAGCTCTG
CTTCTCCGCGCAATGAATGCAAGACCGGCTTCTGCCATTTGTACAAAGTCACCGCCGTTTAAATCCCAGGG
CTACGATTGGAGTGAGCCCTTCAGCCCCGGGGAAGATGAATTTAAGTGCCCCATTAAGGAAGAGATTGCTCTGAC
CAGCGGTGAATGGGAGGTTTGGCGAGGCACGGCTCCAAGATCTGGGTCAATGAGGAGACCAAGCTGGTGTACTT
CCAGGGCACCAAGGACACGCGCTGGAGCACACCTCTACGTGGTCAGCTATGAGGCGGCCGGCGAGATCGTACG
CCTCACACGCCCCGGCTTCTCCCATAGCTGCTCCATGAGCCAGAACTTCGACATGTTTCGTCAGCCACTACAGCAG
CGTGAGCACGCGCCCTGCGTGCACGTCTACAAGCTGAGCGGCCCCGACGACGACCCCTGCACAAGCAGCCCCG
CTTCTGGGCTAGCATGATGGAGGCAGCCAGCTGCCCCCGGATTATGTTTCTCCAGAGATCTTCCATTTCCACAC
GCGCTCGGATGTGCGGCTCTACGGCATGATCTACAAGCCCCACGCTTGCAGCCAGGGAAGAAGCACCCACCGT
CCTCTTTGTATATGGAGGCCCCCAGGTGCAGCTGGTGAATAACTCCTTCAAAGGCATCAAGTACTTGC GGCTCAA
CACACTGGCCTCCCTGGGCTACGCCGTGGTGTGATTGACGGCAGGGGCTCCTGTGAGCGAGGGCTTCGGTTTCA
AGGGGCCCTGAAAAACCAATGGGCCAGGTGGAGATCGAGGACCAGGTGGAGGGCCTGCAGTTCGTGGCCGAGAA
GTATGGCTTCATCGACCTGAGCCGAGTTGCCATCCATGGCTGGTCTACGGGGGCTTCTCTCGCTCATGGGGCT
AATCCACAAGCCCCAGGTGTTCAAGGTGGCCATCGCGGGTGCCCCGGTACCGTCTGGATGGCCTACGACACAGG
GTACACTGAGCGCTACATGGACGTCCCTGAGAACAAACCAGCACGGCTATGAGGCGGGTTCCGTGGCCCTGCACGT
GGAGAAGCTGCCCAATGAGCCCAACCGCTTGCTTATCTCCACGGCTTCTTGACGAAAACGTGCACTTTTTTCCA
CACAACTTCTCTGCTCTCCCAACTGATCCGAGCAGGGAAACCTTACCAGCTCCAGATCTACCCCAACGAGAGACA
CAGTATTTCGCTGCCCCGAGTCGGGCGAGCACTATGAAGTCACGTTGCTGCACTTTCTACAGGAATACCTCTGAGC
CTGCCCCACCGGGAGCCGCCACATCACAGCACAAGTGGCTGCAGCCTCCGCGGGGAACCAGGCGGGAGGGACTGAG
TGGCCCGCGGGCCCCAGTGAGGCACTTTGTCCCGCCAGCGCTGGCCAGCCCCGAGGAGCCGCTGCCTTACCCGC
CCCGACGCTTTTATCCTTTTAAACGCTCTTGGGTTTTATGTCCGCTGCTTCTTGGTTGCCGAGACAGAGAGA
TGGTGGTCTCGGGCCAGCCCCCTCTCTCCCGCCTTCTGGGAGGAGGAGGTACACGCTGATGGGCACTGGAGAG
GCCAGAAGAGACTCAGAGGAGCGGGCTGCCTTCCGCTGGGGCTCCCTGTGACCTCTCAGTCCCCTGGCCCGGCC
AGCCACCGTCCCCAGCACCCAAGCATGCAATTGCCTGTCCCCCGGCCAGCCTCCCCAAGTTGATGTTTGTGTT
TTGTTTGGGGGATATTTTTCATAATTATTTAAAGACAGGCCGGGCGCGGTGGCTCACGTCTGTAATCCAGCA
CTTTGGGAGGCTGAGGCGGGCGGATCACCTGAGGTTGGGAGTTCAAGACCAGCCTGGCCAACATGGGGAAACCC
GTCTCTACTAAAAATACAAAAATTAGCCGGGTGTGGTGGCGCGTGCCTATAATCCAGCTACTCGGGAGGCTGA

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FIGURE 5194B

GGCAGGAGAATCGCTTGAACCCGGGAGGTGGAGGTTGCGGTGAGCCAAGATCGCACCATTGCACTCCAGCCTGGG
CAACAAGAGCGAAACTCTGTCTCAAATAAATAAAAAATAAAAGACAGAAAGCAAGGGGTGCCTAAATCTAGACT
TGGGGTCCACACCGGGCAGCGGGGTTGCAACCCAGCACCTGGTAGGCTCCATTTCTTCCCAAGCCCGAGCAGAGG
GTCATGCGGGCCCCACAGGAGAAGCGGCCAGGGCCCGCGGGGGGCACCACCTGTGGACAGCCCTCCTGTCCCCAA
GCTTTCAGGCAGGCACTGAAACGCACCGAACTTCCACGCTCTGCTGGTCAGTGGCGGCTGTCCCCCTCCCCAGCCC
AGCCGCCCAGCCACATGTGTCTGCCTGACCCGTACACACCAGGGGTTCCGGGGTTGGGAGCTGAACCATCCCCAC
CTCAGGGTTATATTTCCCTCTCCCCTTCCCTCCCCGCCAAGAGCTCTGCCAGGGGCGGGCAAAAAAAAAAAGTAA
AAGAAAAGAAAAAAAAAAAAAAAAA

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FIGURE 5195

TTCCAAGCTGGTTTTGAAGTCGCGGCAGCTGTTCTGGGACGTCCGGTTGACCGCGCGTCTGCTGCAGAGACCAT
GTCTGCCGACGGGGCAGAGGCTGATGGCAGCACCCAGGTGACAGTGGAAGAACCGGTACAGCAGCCCAGTGTGGT
GGACCGTGTGGCCAGCATGCCTCTGATCAGCTCCACCTGCGACATGGTGTCCGCAGCCTATGCCTCCACCAAGGA
GAGTACCCGCACATCAAGACTGTCTGCGACGCAGCAGAGAAGGGAGTGAGGACCCTCACGGCGGGCTGCTGTCTCAG
CGGGGCTCAGCCGATCCTCTCCAAGCTGGAGCCCCAGATTGCATCAGCCAGCGAATACGCCCACAGGGGGCTGGA
CAAGTTGGAGGAGAACCCTCCCCATCCTGCAGCAGCCCACGGAGAAGGTCTGGCGGACACCAAGGAGCTTGTGTC
GTCTAAGGTGTGCGGGGGCCCAAGAGATGGTGTCTAGCGCCAAGGACACGGTGGCCACCCAATTGTGCGAGGCGGT
GGACGCGACCCGCGGTGCTGTGTCAGAGCGGCGTGGACAAGACAAAGTCCGTAGTGACCGGCGGCGTCCAATCGGT
CATGGGCTCCCGCTTGGGGCCAGATGGTGTGAGTGGGGTCGACACGGTGTGGGGAAGTCGGAGGAGTGGGCGGA
CAACCACCTGCCCCCTTACGGATGCCGAAGTGGCCCGCATCGCCACATCCCTGGATGGCTTTGACGTGCGGTCCGT
GCAGCAGCAGCGGCAGGAACAGAGCTACTTCGTACGTCTGGGCTCCCTGTGCGGAGAGGCTGCGGCAGCACGCCTA
TGAGCACTCGCTGGGCAAGCTTCTGAGCCACCAAGCAGAGGGGCACAGGAGGCTCTGCTGCAGCTGTGCGAGGTCTT
AAGCCTGATGGAAACTGTCAAGCAAGGCGTTGATCAGAAGCTGGTGGAAGGCCAGGAGAAGCTGCACCAGATGTG
GCTCAGCTGGAACCAGAAGCAGCTCCAGGGCCCCGAGAAGGAGCCGCCAAGCCAGAGCAGGTGAGTCCCGGGC
GCTCACCATGTTCCGGGACATTGCCAGCAACTGCAGGCCACCTGTACCTCCCTGGGGTCCAGCATTACAGGGCCT
CCCCACCAATGTGAAGGACCAGGTGCAGCAGGCCCGCCGCGCAGGTGGAGGACCTCCAGGCCACGTTTTCCAGCAT
CCACTCCTTCCAGGACCTGTCCAGCAGCATTCTGGCCAGAGCCGTGAGCGTGTGCGCCAGCGCCCGCGAGGCCCT
GGACCACATGGTGGAATATGTGGCCAGAACACACCTGTCACGTGGCTCGTGGGACCCCTTTGCCCCTGGAATCAC
TGAGAAAGCCCCGGAGGAGAAGAAGTAGGGGGAGAGGAGAGGACTCAGCGGGCCCCGTCTCTATAATGCAGCTGT
GCTCTGGAGTCCTCAACCCGGGGCTCATTTCAACTTATTTTCTAGCCACTCCTCCAGCTCTTCTGTGCTGTCC
ACTTGGGAAGCTAAGGCTCTCAAAACGGGCATCACCCAGTTGACCCATCTCTCAGCCTCTCTGAGCTTGGAAGAA
GCCTGTTCTGAGCCTCACCTATCAGTCAGTAGAGAGAGATGTCCAGAAAAAATATCTTTCAGGAAAGTTCTCCC
CTGCAGAAATTTTTTTCTTGTAAATATCAGGAATATAGGCCGGGTGCGGTGGCTCACACCTGTAATCCCAGCA
CTTTGGGAGGCTGAGGCGGGCGGAACACCTGAGGTGAGGTGTTTCGAGACCAGCCAGGCCAACATGGTGAAACCCC
GTCTCTACTAAAAATACAAAAAAAATGAGCCGGGCATGGTAGCAGGTGTCTGTTATCCCAGTTAGGAGGCTGAG
GCAAGAGAATCTCTTGAACCTGAGAGGCGGAGGTTGCAGTGAGCCAAGATCGCGCCATTGCACTCCAGCCTGGGG
GACAAGAGTGAGACTTAGTCTCA

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FIGURE 5196A

CGACTCCTTAGAGCATGGCATGGCTCAGAGGTGCTGGTAAAACTGATGGGGGTTTTTGTGTCCCTCCCCTCAGC
GCCGACACCATGTGGATCCAGGTTCCGACCATGGACGGGAGGCAGACCCACACGGTGGACTCGCTGTCCAGGCTG
ACCAAGGTGGAGGAGCTGAGGCGGAAGATCCAGGAGCTGTTCCACGTGGAGCCAGGCCTGCAGAGGCTGTTCTAC
AGGGGCAAACAGATGGAGGACGGCCATACCCTCTTCGACTACGAGGTCCGCCTGAATGACACCATCCAGCTCCTG
GTCCGCCAGAGCCTCGTGCTCCCCACAGCACCAAGGAGCGGGACTCCGAGCTCTCCGACACCGACTCCGGCTGC
TGCCTGGGCCAGAGTGAGTCAGACAAGTCTCCACCCACGGTGAGGCGGCCGCCGAGACTGACAGCAGGCCAGCC
GATGAGGACATGTGGGATGAGACGGAATTGGGGCTGTACAAGGTCAATGAGTACGTGATGCTCGGGACACGAAC
ATGGGGGCGTGTTTTGAGGCGCAGGTGGTCAGGGTGACGCGGAAGGCCCTCCCGGGACGAGCCCTGCAGCTCC
ACGTCCAGGCCGGCGCTGGAGGAGGACGTCAATTTACCACGTGAAATACGACGACTACCCGGAGAACGGCGTGGTC
CAGATGAACTCCAGGGACGTCCGAGCGCGCGCCCGCACCATCATCAAGTGGCAGGACCTGGAGGTGGGCCAGGTG
GTCATGCTCAACTACAACCCCGACAACCCCAAGGAGCGGGGCTTCTGGTACGACGCGGAGATCTCCAGGAAGCGC
GAGACCAGGACGGCGCGGGAACCTCTACGCCAACGTGGTGCTGGGGGATGATTCTCTGAACGACTGTCCGATCATC
TTCGTGGACGAAGTCTTCAAGATTGAGCGGCCGGGTGAAGGGAGCCCCATGGTTGACAACCCCATGAGACGGAAG
AGCGGGCCGTCTCTGCAAGCACTGCAAGGACGACGTGAACAGACTCTGCCGGGTCTGCGCTGCCACCTGTGCGGG
GGCCGGCAGGACCCCGACAAGCAGCTCATGTGCGATGAGTGCGACATGGCCTTCCACATCTACTGCCCTGGACCCG
CCCCTCAGCAGTGTTCAGCGAGGACGAGTGGTACTGCCCTGAGTGCCGGAATGATGCCAGCGAGGTGGTACTG
GCGGGAGAGCGGCTGAGAGAGAGCAAGAAGAAGGCGAAGATGGCCTCGGCCACATCGTCTCACAGCGGGACTGG
GGCAAGGGCATGGCCTGTGTGGGCCGCACCAAGGAATGTACCATCGTCCCGTCCAACCACTACGGACCCATCCCG
GGGATCCCCGTGGGCACCATGTGGCGGTTCCGAGTCCAGGTGACGAGTCCGGGTGTCCATCGGCCCCACGTGGCT
GGCATAACGGCCCGGAGCAACGACGGAGCGTACTCCCTAGTCTTGGCGGGGGCTATGAGGATGATGTGGACCAT
GGGAATTTTTTACATACACGGGTAGTGGTGGTCGAGATCTTTCCGGCAACAAGAGGACCGCGGAACAGTCTTGT
GATCAGAACTCACCAACACCAACAGGGCGTGGCTCTCAACTGCTTTGCTCCCATCAATGACCAAGAAGGGGCC
GAGGCCAAGGACTGGCGGTCCGGGAAGCCGGTCAGGGTGGTGCGCAATGTCAAGGGTGCCAAGAATAGCAAGTAC
GCCCCCGCTGAGGGCAACCGCTACGATGGCATCTACAAGGTTGTGAAATACTGGCCCGAGAAGGGGAAGTCCGGG
TTTCTCGTGTGGCGCTACCTTCTGCGGAGGGACGATGATGAGCCTGGCCCTTGGACGAAGGAGGGGAAGGACCGG
ATCAAGAAGCTGGGGCTGACCATGCAGTATCCAGAAGGCTACCTGGAAGCCCTGGCCAACCGAGAGCGAGAGAAG
GAGAACAGCAAGAGGGAGGAGGAGGAGCAGCAGGAGGGGGGCTTCGCGTCCCCCAGGACGGGCAAGGGCAAGTGG
AAGCGGAAGTCGGCAGGAGGTGGCCCCGAGCAGGGGCCGGGTCCCCGCGCCGACATCCAAGAAAACCAAGGTGGA
GCCCTACAGTCTCACGGCCAGCAGAGCAGCCTCATCAGAGAGGACAAGAGCAACGCCAAGCTGTGGAATGAGGT
CCTGGCGTCACTCAAGGACCGGCCGGCGAGCGGCAGCCGTTCCAGTTGTTTCTGAGTAAAGTGAGGAGACGTT
CCAGTGTATCTGCTGTGTCAGGAGCTGGTGTTCGGGCCCATCACGACCGTGTGCCAGCACAACGTGTGCAAGGACTG
CCTGGACAGATCCTTTCCGGGCACAGGTGTTAGCTGCCCTGCCCTGCGCTACGACCTGGGCCGAGCTATGCCAT
GCAGGTGAACCAGCCTCTGCAGACCGTCTCAACCAGCTCTTCCCCGGCTACGGCAATGGCCGGTGATCTCCAAG
CACTTCTCGACAGGCGTTTTTGTGAAAACGTGTGCGAGGGCTCGTTTCATCGGCACTGATTTTGTCTTAGTGGGC
TTAACTTAAACAGGTAGTGTTCCTCCGTTCCCTAAAAAGGTTTGTCTTCTTTTTTTTTTTTATTTTATTTTTC
AAATCTATACATTTTTCAGGAATTTATGTATTCTGGCTAAAAGTTGGACTTCTCAGTATTGTGTTTAGTTCTTTGA
AAACATAAAAGCCTGCAATTTCTCGACAAAACAACACAAGATTTTTTAAAGATGGAATCAGAACTACGTGGTGT
GGAGGCTGTTGATGTTTTCTGGTGCAAGTTCTCAGAAGTTGCTGCCACCAACTCTTTAAGAAGGCGACAGGATCA
GTCTTCTCTCGGGTTCTGGCCCCCAAGGTCAGAGCAAGCATCTTCTGACAGCATTTTGTATCTAAAGTCCAG
TGACATGGTTCCCGTGGTGGCCCGTGGCAGCCCGTGGCATGGCGTGGCTCAGCTGTCTGTTGAAGTTGTTGCAA
GGAAAAGAGGAAACATCTCGGGCCTAGTTCAAACCTTTCCTCAAAGCCATCCCCCACCAGACTGCTTAGCGTCT
GAGATCCGCGTGAAGTCTCTGCCCACGAGAGCAGGGAGTTGGGGCCACGCAGAAATGGCCTCAAGGGGACTC
TGCTCCACGTGGGGCCAGGCGTGTGACTGACGCTGTCCGACGAAGGCGGCCACGGACGGACGCCAGCACACGAAG
TCACGTGCAAGTGCCTTTGATTGCTTCCTTCTTTCTAAAGACGACAGTCTTTGTTGTTAGCACTGAATTATTGAA
AATGTCAACCAGATTCTAGAACTGCGGTCATCCAGTTCTTCTGACACCGGATGGGTGCTTGGGAACCGTTTGA
GCCTTATAGATCATTTACATTCAATTTTTTAACTCAGCAAGTGAGAACTTACAAGAGGGTTTTTTTTAAATTTT
TTTTTCTCTTAATGAACACATTTTCTAAATGAATTTTTTTTGTAGTTACTGTATATGTACCAAGAAAGATATAAC
GTTAGGGTTTGGTTGTTTTTGTATTTTTTCTTTTGAAGGGTTTGTAAATTTTTTCTAATTTTACCAA

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FIGURE 5196B

AGTTTGCAGCCTATACCTCAATAAAACAGGGATATTTTAAATCACATACCTGCAGACAACTGGAGCAATGTTAT
TTTTAAAGGGTTTTTTTTCACCTCCTTATTCTTAGATTATTAATGTATTAGGGAAGAATGAGACAATTTTGTGTAG
GCTTTTCTAAAGTCCAGTACTTTGTCCAGATTTTAGATTCTCAGAATAAATGTTTTTCACAGAT

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FIGURE 5197A

GTCGCCAGCAACCGAGCGGGGCCCGGCCGAGCGGGGCTGGGGGTGCGACGCCGAGGGCGGGGGAGAGCGCGCC
GCTGCTCCCGGACCGGGCCGCGCACGCCGCCTCAGGAACCATCACTGTTGCTGGAGGCACCTGACAAATCCTAGC
GAATTTTGGAGCATCTCCACCCAGGAACCTCGCCATCCAGAAGTGTGCTTCCCGCACAGCTGCAGCCATGGGGT
CTGAGGACCACGGCGCCAGAACCCAGCTGTAAATCATGACGTTTCGCCCAACCATGGAAGAATTTAAAGACT
TCAACAAATACGTGGCCTACATAGAGTCGACGGGAGCCACCAGGGCGGGCCTGGCCAAGATCATCCCCCGAAGG
AGTGGAAGCCGCGGCAGACGTATGATGACATCGACGACGTGGTGATCCCGCGCCCCATCCAGCAGGTGGTGACGG
GCCAGTCGGGCCTCTTCACGCAGTACAATATCCAGAAGAAGGCCATGACAGTGGGCGAGTACCGCCGCCTGGCCA
ACAGCGAGAAGTACTGTACCCCGCGGCACCAGGACTTTGATGACCTTGAACGCAAATACTGGAAGAACCTCACCT
TTGTCTCCCCGATCTACGGGGCTGACATCAGCGGCTCTTTGTATGATGACGACGTGGCCCCAGTGGAACATCGGGA
GCCTCCGGACCATCTTGACATGGTGGAGCGCGAGTGGCGCACCATCATCGAGGGCGTGAAACACGCCCTACCTGT
ACTTCGGCATGTGGAAGACCACCTTCGCCTGGCACACCGAGGACATGGACCTGTACAGCATCAACTACCTGCACT
TTGGGGAGCCTAAGTCCTGGTACGCCATCCACCAGAGCACGGCAAGCGCCTGGAGCGGCTGGCCATCGGCTTCT
TCCCCGGGAGCTCGCAGGGCTGCGACGCCTTCCTGCGGCATAAGATGACCCTCATCTCGCCCATCATCCTGAAGA
AGTACGGGATCCCCCTTCAGCCGGATCACGCAGGAGGCCGGGGAATTCATGATCACATTTCCCTACGGCTACCACG
CCGGCTTCAATCACGGGTCAACTGCGCAGAATCTACCAACTTCGCCACCCTGCGGTGGATTGACTACGGCAAAG
TGGCCACTCAGTGACGTGCCGGAAGGACATGGTCAAGATCTCCATGGACGTGTTTCGTGCGCATCTTCGAGCCCCG
AGCGCTACGAGCTGTGGAAGCAGGGCAAGGACCTCACGGTGTGGACCACACGCGGCCCCACGGCGCTCACCAGCC
CCGAGCTGAGCTCCTGGAGTGCATCCCGGGCCTCGCTGAAGGCCAAGCTCCTCCGCAGGTCTCACCGGAAACGGA
GCCAGCCCAAGAAGCCGAAGCCCCGAAGACCCCAAGTTCCCTGGGGAGGGTACGGCTGGGGCAGCGCTCCTAGAGG
AGGCTGGGGGCAGCGTGAAGGAGGAGGCTGGGCCGGAGGTTGACCCGAGGAGGAGGAGGAGGCCGAGCCAC
TGCCACACGGCCGGGAGGCCGAGGGCGCAGAAGAGGACGGGAGGGGCAAGCTGCGGCCAACCAAGGCCAAGAGCG
AGCGGAAGAAGAAGAGCTTCGGCCTGTGCCCCACAGCTGCCGCCCCCGCTGCTCACTTCCCCCTCAGAGGAGG
CGCTGTGGCTGCCATCCCCACTGGAGCCCCCGGTGCTGGGCCAGGCCCTGCAGCCATGGAGGAGAGCCCCCTGC
CGGCACCCCTTAATGTGCTGCCCCCTGAGGTGCCCAGTGAGGAGCTAGAGGCCAAGCCTCGGCCCCATCATCCCCA
TGCTGTACGTGGTGCCGCGGCCGGGCAAGGCAGCCTTCAACCAGGAGCACGTGTCTGCCAGCAGGCCTTTGAGC
ACTTTGCCCAGAAGGGTCCGACCTGGAAGGAACAGTTTCCCCCATGGAGCTGACGGGGCCAGAGGACGGTGCAG
CCAGCAGTGGGGCAGGTGCGATGGAGACCAAAGCCCCGGGCCGAGAGGGGCAGGCACCGTCCACATTTTCCAAAT
TGAAGATGGAGATCAAGAAGAGCCGGCGCCATCCCCTGGGCCGGCCGCCACCCGGTCCCCACTGTCCGTGGTGA
AGCAGGAGGCCTCAAGTGACGAGGAGGCATCCCCCTTCTCCGGGGAGGAAGATGTGAGTGACCCGGACGCCTTGA
GGCCGCTGCTGTCTCTGCAGTGAAGAACAGGGCGGCCAGCTTCCAGGCCGAGAGGAAGTTCAACGCAGCGGCTG
CGCGCACGGAGCCCTACTGCGCCATCTGCACGCTCTTCTACCCCTACTGCCAGGCCCTACAGACTGAGAAGGAGG
CACCCATAGCCTCCCTCGGAAAGGGCTGCCCCGGCCACATTACCCTCCAAAAGCCGTGAGAAGACCCGACCGCTCA
TCCCTGAGATGTGCTTACCTCTGGCGGTGAGAACACGGAGCCGCTGCCTGCCAACTCCTACATCGGCGACGACG
GGACCAGCCCCCTGATCGCCTGCGGCAAGTGCTGCCTGCAGGTCCATGCCAGTTGCTATGGCATCCGTCCCGAGC
TGGTCAATGAAGGCTGGACGTGTTCCCGGTGCGCGGCCACGCCTGGACTGCGGAGTGCTGCCTGTGCAACCTGC
GAGGAGGTGCGCTGCAGATGACCACCGATAGGAGGTGGATCCACGTGATCTGTGCCATCGCAGTCCCCGAGGCGC
GCTTCCTGAACGTGATTGAGCGCCACCCTGTGGACATCAGCGCCATCCCCGAGCAGCGGTGGAAGCTGAAATGCG
TGTAAGTCCGGAAGCGGATGAAGAAGGTGTCAGGTGCCTGTATCCAGTGCTCCTACGAGCACTGCTCCACGTCTT
TCCACGTGACCTGCGCCACGCCGAGCGTGCTCATGGAGCCGGACGACTGGCCCTATGTGGTCTCCATCACCT
GCCTCAAGCACAAAGTCGGGGGGTACGCTGTCCAACCTCCTGAGGGCCGTGTCCCTAGGCCAGGTGGTCATACCA
AGAACCGCAACGGGCTGTACTACCGCTGTGCGTCACTCGGTGCCGCCTCGCAGACCTGCTACGAAGTGAACCTCG
ACGATGGCTCCTACAGCGACAACCTGTACCCTGAGAGCATCACGAGTAGGGACTGTGTCCAGCTGGGACCCCCCTT
CCGAGGGGGAGCTGGTGGAGCTCCGGTGGACTGACGGCAACCTCTACAAGGCCAAGTTTCATCTCCTCCGTACCA
GCCACATCTACCAGGTGGAGTTTGAGGACGGGTCCAGCTGACGGTGAAAGCGTGGGGACATCTTACCCTGGAGG
AGGAGCTGCCCAAGAGGGTCCGCTCTCGGCTGTACTGAGCACGGGGGACCGCAGGAGCCCGCCTTCTCGGGGG
AGGAGGCCAAGGCCGCCAAGCGCCCGCTGTGGGCACCCGCTTGCCACGGAGGACTCCGGGCGGAGCCAGGACT
ACGTGGCCTTCTGTGAGAGCCTCCTGCAGGTGCAGGGCCGGCCCGGAGCCCCCTTCTAGGACAGCTGGCCGCTCA
GGCGACCCTCAGCCCGGGGGAGGCCATGGCATGCCCCGGCGTTCGCTTGCTGTGAATTCCTGTCTCGTGTC

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FIGURE 5197B

CCCGACCCCCGAGAGGCCACCTCCAAGCCGCGGGTGCCCCCTAGGGCGACAGGAGCCAGCGGGACGCCGCACGCG
GCCCCAGACTCAGGGAGCAGGGCCAGGCGGGCTCGGGGGCCGGCCAGGGGAGCACCCCACTCAACTACTCAGAAT
TTTAAACCATGTAAGCTCTCTTCTCTCGAAAAGGTGCTACTGCAATGCCCTACTGAGCAACCTTTGAGATTGTC
ACTTCTGTACATAAACACCTTTGTGAGGCTCTTTCTATAAATACATATTGTTTAAAAAAAAGCAAGAAAAAAG
GAAAACAAAGGAAAATATCCCCAAAGTTGTTTTCTAGATTTGTGGCTTTAAGAAAAACAAAACAAAACAAACACA
TTGTTTTTCTCAGAACCAGGATTCTCTGAGAGGTCAGAGCATCTCGCTGTTTTTTTTGTTGTTGTTTTTAAATATT
ATGATTTGGCTACAGACCAGGCAGGGAAAGAGACCCGGTAATTGGAGGGTGAGCCTCGGGGGGGGGGCAGGACGC
CCCGGTTTCGGCACAGCCCGGTCACTCACGGCCTCGCTCTCGCCTCACCCCGGCTCCTGGGCTTTGATGGTCTGG
TGCCAGTGCCCTGTGCCACTCTGTGCCTGTGAGGAGGAGGCCAGGCTCTCTGGTGGCCGCCCTGTGCACCTGG
CCAGGGGAAGCCCGGGGTCTGGGGCCTCCCTCCGTCTGCGCCACCTTTGCAGAATAAACTCTCTCCTGGGGTT
TGTCTATCTTTGTTTCTCTCACCTGAGAGAAACGCAGGTGTTCCAGAGGCTTCCTTGACAGACAAAGCACCCCTGC
ACCTCCTATGGCTCAGGATGAGGGAGGCCCCAGGCCCTTCTGGTTGGTAGTGAGTGTGGACAGCTTCCCAGCTC
TTCGGGTACAACCTGAGCAGGTGCGGGGACACAGGGCCGAGGCAGGCCTTCGGGGCCCCCTTCGCCTGCTTCCG
GGCAGGGACGAGGCCTGGTGTCTCGCTCCACCCACCCACGCTGCTGTACCTGAGGGGAATCTGCTTCTTAGGA
GTGGGTGAGCTGATAGAGAAAAAACGGCCTTCAGCCCAGGCTGGGAAGCGCCTTCTCCAGGTGCCTCTCCCTCA
CCAGCTCTGCACCCCTCTGGGGAGCCTTCCCCACCTTAGCTGTCTCCTGCCCCAGGGAGGGATGGAGGAGATAAT
TTGCTTATATTAAAAACAAAAAATGGCTGAGGCAGGAGTTTGGGACCAGCCTGGGCTATATAGCAAGACCCATC
ACTACAAATTTTTTACAAATTAGCTAGGTGTGGTGGTGCACCTGTGGTCCCAGCTACTCGGGAGGCTGTGGTG
GGAGGATTGCTTGAGTCCAGGAGGTGAGGCTGCAGTCAGCTCAGATTGCACCACTGCCTCCAGCCTGGGCAAC
AGAGCGAGACCCTGTCTCCAAAAAAGCAATGTTTATATTATAAAAGAGTGTCCTAACAGTCCCCGGG
CTAGAGAGGACTAAGGAAAACAGAGAGAGTGTTACGCAGGAGCAAGCCTTTCATTTCCTTGGTGGGGGAGGGGG
CGGTTGCCCTGGAGAGGGCCGGGGTGGGGGAGGTTGGGGGGTGTACGCCAAAACGTGGAGGTGTCCCTCTGCACG
CAGCCCTCGCCCGCGTGGCGCTGACACTGTATTCTTATGTTGTTTGAAAATGCTATTTATATTGTAAAGAAGCG
GGCGGGTGCCCTGCTGCCCTTGTCCCTTGGGGGTACACCCATCCCCCTGGTGGGCTCCTGGGCGGCCTGCGCAG
ATGGGCCACAGAAGGGCAGGCCGAGCTGCACACTCTCCCCACGAAGGTATCTCTGTGTCTTACTCTGTGCAAAG
ACGCGGCAAAACCCAGTGCCCTGGTTTTTCCCCACCCGAGATGAAGGATACGCTGTATTTTTTGCCTAATGTCCC
TGCTCTAGGTTTATAATGAATTAAAGGTTTATGAACGCTGC

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FIGURE 5198

MGSEDHGAQNPSCKIMTFRPTMEEFKDFNKYVAYIESQGAHRAGLAKIIPPKEWKPRQTYDDIDDVVIPAPIQQV
VTGQSGLFTQYNIQKKAMTVGEYRRLANSEKYCTPRHQDFDDLERYWKNLTFVSPYIYGADISGSLYDDDDVAQWN
IGSLRTILDMVERECGTIIIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYLHFGEPKSWYAIPPEHGKRLERLAI
GFFPGSSQGCDALRHKMTLISPIILKKYGIPFSRITQEAGEFMITFPYGYHAGFNHGFNCAESTNFATLRWIDY
GKVATQCTCRKDMVKISMDVFRILQPERYELWKQGDLTVLDHTRPTALTSPELSSWSASRASLKAKLLRRSHR
KRSQPKPKPEDPKFPGEGETAGAALEEAGGSVKEEAGPEVDPEEEEEEPQFLPHGREAEAGAEEDGRGKLRPTKA
KSERKKKSFGLLPPLPPPAHFPSEEALWLPSLEPPVLGPGPAAMEESPLPAPLNVVPPEVPSEELEAKPRPI
IPMLYVVP RP GKAAFNQEHVSCQQAFAEHFAQKGPTWKEPVSPMELTGPEDGAASSGAGRMETKARAGEGQAPSTF
SKLKMEIKKSRRHPLGRPPTRSPLSVVKQEASSDEEASPFSGEEDVSDPDALRPLLSLQWKNRAASFQAERKFNA
AAARTEPYCAICTLFYPYCQALQTEKEAPIASLGKGCPATLPSKSRQKTRPLIPEMCFTSGGENTEPLPANSYIG
DDGTSPLIACGKCCLQVHASCYGIRPELVNEGWTCSRCAAHAWTAECCLCNLRGGALQMTTDRRWIHVICAIAVP
EARFLNVIERHPVDISAIPEQRWKLKCVYCRKRMKKVSGACIQCSYEH CSTSFHVTCAHAAGVLMEPDDWPYVVS
ITCLKHKSGGHAVQLLRAVSLGQVVITKNRNGLYYRCRVIGAASQTCYEVNFDDGSYSDNLYPESITSRDCVQLG
PPSEGELVELRWTDGNLYKAKFISSVTSHIYQVEFEDGSQTLTKRGDIFTLEEEELPKRVR SRLSLSTGAPQEPAF
SGEEAKAAKRPRVGTPLATEDSGRSQDYVAFVESLLQVQGRPGAPF

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FIGURE 5199

TGCGACTGAGTCGGTGGCGAAGACGGGAACGCGACGATGGCGGAGACTCTGCCCGGGTCGGGCGACTCGGGCCCT
GGCACGGCTTCTCTCGGCCCGGGCGTTGCGGAGACTGGGACGAGGCGGCTCAGCGAGCTGCGGGTGATCGATCTG
CGGGCGGAGCTGAAGAAGCGGAACCTGGACACGGGCGGCAACAAGAGCGTCCTGATGGAGCGGCTCAAGAAGGCG
GTTAAAGAAGAGGGGCAAGATCCTGATGAAATTGGCATCGAGTTAGAAGCCACCAGCAAGAAGTCAGCCAAGAGA
TGTTGTTAAAGGACTGAAGATGGAGGAGGAAGGCACAGAAGATAATGGCCTGGAAGACGATTCCAGAGACGGGCG
GAGGACATGGAAGCAAGTCTGGAGAACCTGCAGAATATGGGCATGATGGACATGAGTGTGCTAGACGAACTGAA
GTGGCGAATAGCAGTGCTCCAGATTTTGGGGAGGATGGCACGGACGGCCTTCTCGATTCTTTTGTGATAGTAAA
GAATACGTGGCTGCACAGCTGAGACAGCTCCCGGCTCAGCCCCCAGAGCATGCTGTGGATGGGGAAGGATTTAAG
AACACTTTGGAAACTTCATCGTTGAACTTCAAAGTAACTCCGGACATTGAAGAATCCCTTTTGGAGCCAGAAAAT
GAGAAAATACTCGACATTTTGGGGGAACTTGTAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAG
CCATTTGCACAGGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGGCGAGGAAGAGGACCTATTTGACAGCGCC
CATCCGGAAGAGGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTG
TTAGCGGTAGTGAAAAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTA
GAGCCGGCAGTTGAGCAGAGTAGTGCGGCCTCCGAGCTCGCGGAGGCCTCTAGCGAGGAGCTCGCAGAAGCACCC
ACGGAAGCCCCAAGCCCAGAAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGTAATGAA
GTCCCTCCGGCTCCTAAAGAGTCCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGCTCTTTTAAGGAAGAAAAA
GATATAAAGCCAATCATTTAAAGATGAAAAAGGTGGGTGCGCAGCGGTTCTGGTCGGAACCTGTGGGTGAGCGG
CTGTCTCCACAACACGCGCTACGGATCTCAAGAACCTTTTTCAGCAAGTATGGGAAGGTTGTGCGGGCCAAAGTG
GTAACGAACGCCCCGAGCCCGGGGGCTCGATGCTATGGATTGCTACCATGTGACATCTGACGAGGCGACCAAG
TGCATCAGCCATCTCCACAGAACTGAGCTGCATGGACGAATGATCTCCGTAGAGAAGGCCAAAAATGAGCCTGCT
GGGAAAAAGCTTTCCGACAGAAAAAGAGTGCGAAGTGAAGAAGGAAAAATTATCGAGTGTGACAGACATCATTCT
GTGGAGATCAAAATTGAAAAAACTGTAATTAAGAAGGAAGAGAAGATTGAGAAGAAGGAGGAAAAAAGCCTGAA
GACATTAAGAAGGAAGAAAAAGACCAGGATGAGCTGAAACCCGGACCTACAAATCGGTCTAGAGTCACCAAATCA
GGAAGCAGAGGAATGGAGCGGACGGTCTGTGATGGATAAATCGAAAGGAGAGCCCGTCATTAGCGTGAAAACCACA
AGCAGGTCCAAAGAGAGAAGCTCCAAGAGTCAGGATCGCAAGTCAGAAAGCAAAGAAAAAGAGAGACATCTTGTCG
TTTGATAAAATCAAAGAACAAAGGGAGAGAGAGCGCCAGAGGCAGCGGGAACGGGAGATCCGCGAAACGGAGAGG
CGGCGGGAGCGCGAGCAGCGGGAGCGGGAGCAACGCCTCGAGGCCTTCCATGAGCGGAAGGAGAAGGCCCGGCTA
CAGCGGGAACGCCTGCAGCTCGAGTGCCAGCGCCAGCGGCTGGAGCGGGAGCGCATGGAGCGGGAGCGGCTGGAG
CGCGAGCGCATGCGCGTGAGCGCAGGAAGGAGCAGGAGCGCATCCACCGCGAGCGCGAGGAGCTGCGG
CGCCAGCAGGAGCAGCTGCGTTACGAGCAGGAGCGGCGGGCCGGGCGGAGGCCCTACGACCTGGACCGACGAGAT
GATGCCTATTGGCCAGAAGGAAAGCGTGTGGCAATGGAGGACCGATATCGTGACAGCTTTCCCCGGCCAGACCAC
CGCTTTCACGACTTCGATCATCGAGACCGGGGCCAGTACCAGGACCACGCCATCGACAGGCGGGAGGGTTTCGAGG
CCAATGATGGGAGACCACCGGGATGGGCAGCACTATGGAGATGACCGCCATGGCCACGGAGGACCCCCAGAGCGC
CACGGCCGGGACTCCCGTGATGGCTGGGGGGGCTACGGCTCCGACAAGAGGCTGAGTGAAGGCCGGGGGCTGCC
CCTCCCCCAGGGGTGGCCGTGACTGGGGAGAGCACAAACAGCGGCTAGAGGAGCACCAGGCACGCGCCTGGCAG
GGTGCCATGGACGCAGGCGCGGCTAGCCGGGAGCACGCCAGGTGGCAAGGTGGCGAGAGGGGCTGTCTGGGCCC
TCGGGGCCGGGGCACATGGCAAGCCGCGGTGGAGTGGCGGGGCGAGGCGGCTTTGCACAAGGTGGACATTCCCAG
GGCCACGTGGTGCCAGGTGGCGGACTGGAAGGTGGCGGAGTGGCCAGCCAGGACCGGGGCGAGAGTCCCTCAC
CCACACCTCATCCCCCCCCGTACCCCCACTTCACCCGCGGCTACTAAGTCCCACTCGCTGTGAGTTTTTCGGGTG
GGCAGACGCACTGTTGAATCTGGTAGCCAGGGTTCCCTCGAAGTTGGGGGATCTTTTTTAAAGCAAAGTAAATCC
TGCCACCATGTTGTAGCTCAATACAATGTGAACTCACTTTTTTTTTTTTTTAAATAAATGTGTTCTGTCTGC
CATTTTTAAATCAAGGTTTCTGTTAACGAGGCATTCCATTTTCCATTAAATAAAGTTTACCATTGCAAAAAAAA
ATGTGTTCTGTTCTGCCATTTTTAAATCAAGGTTTCTGTTAACGAGGCATTCCATTTTCCATTAAATAAAGTTTA
CCATTGCG

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FIGURE 5200

MAETLPGSGDSGPGTASLGPGVAETGTRRLSELRVIDLRAELKKRNLDTGGNKSVLMERLKKAVKEEGQDPDEIG
IELEATSKKSAKRCVKGLKMEEEGTEDNGLEDDSRDGGQEDMEASLENLQNMGMMDMSVLDETEVANSSAPDFGED
GTDGLLDSCDSKEYVAAQLRQLPAQPPEHAVDGEFGKNTLETSSLNFKVTPDIEESLLEPENEKILDILGETCK
SEPVKEESSELEQPFQDTSSVGPDRKLAEEEDLFDSAHPPEEGDLDLASESTAHQAQSSKADSLAVVKREPQEP
GDGERTDCEPVGLEPAVEQSSAASELAEEASSEELAEAPTEAPSPPEARDSKEDGRKFDFDACNEVPPAPKESSTSE
GADQKMSSFKEEKDIKPIIKDEKGRVGSGRNLWVSGLSSTTRATDLKNLFSKYGKVVGAKVVTNARSPGARC
GFVTMSTSDKATKCSHLHRTLHGRMISVEKAKNEPAGKKLSRKECEVKKEKLSSVDRHHSVEIKIEKTVIKK
EEKIEKKEKKPEDIKKEEKDQDELKPGPTNRSRVTKSGSRGMERTVMDKSKGEPVISVKTTSRSKERSSSKSQD
RKSESKEKRDILSFDKIKEQRERERQRQREIRETERRREREQREREQRLEAFHERKEKARLQRERLQLECRQ
RLERERMERERLERERMRVERERRKEQERIHREREELRRQQEQLRYEQERRPGRRPYDLDRDDAYWPEGKRVAM
EDRYRADFPRPDHRFHDFDHRDRGQYQDHAIDRREGSRPMMGDHRDGGHYGDDRHHGGPPERHGRDSRDGWGGY
GSDKRLSEGRGLPPPPRGGRDWGEHNQRLEEHQARAWQGAMDAGAASREHARWQGGGERGLSGPSGPGHMASRGGV
AGRGGFAQGGHSQGHVVPGGGLEGGGVASQDRGSRVPHPHPHPPYPHFTRRY

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FIGURE 5201

GACCGGGGCGTGCGGAGGGATGTGGCCCGGAATATTGGTAGGGGGGGCCCGGGTGGCGTCATGCAGGTACCCCGC
GCTGGGGGCTCGCCTCGCCGCTCACTTTCCAGCGCAGCGGCCCGCCGAGCGGACACTCCAGAACGGCCTGGCCCT
GCAGCGGTGCCTGCACGCGACGGCGACCCGGGCTCTCCCGCTCATTCCTCATCGTGGTGGAGCAGACGGGTGCGGG
CGAGCGCGCCTATGACATCTACTCGCGGCTGCTGCGGGAGCGCATCGTGTGCGTCATGGGCCCAGTCGATGACAG
CGTTGCCAGCCTTGTTATCGCACAGCTCCTCTTCCTGCAATCCGAGAGCAACAAGAAGCCCATCCACATGTACAT
CAACAGCCCTGGTGGTGTGGTGACCGCGGGCCTGGCCATCTACGACACGATGCAGTACATCCTCAACCCGATCTG
CACCTGGTGCCTGGGCCAGGCCGCCAGCATGGGCTCCCTGCTTCTCGCCGCCGGCACCCAGGCATGCGCCACTC
GCTCCCCAACTCCCGTATCATGATCCACCAGCCCTCAGGAGGCGCCCGGGGCCAAGCCACAGACATTGCCATCCA
GGCAGAGGAGATCATGAAGCTCAAGAAGCAGCTCTATAACATCTACGCCAAGCACACCAAACAGAGCCTGCAGGT
GATCGAGTCCGCCATGGAGAGGGACCGCTACATGAGCCCCATGGAGGCCAGGAGTTTGGCATCTTAGACAAGGT
TCTGGTCCACCCTCCCCAGGACGGTGAGGATGAGCCACGCTGGTGCAGAAGGAGCCTGTAGAAGCAGCGCCGGC
AGCAGAACCTGTCCAGCTAGCACCTTGAGAGCTGGGCCTCCTCTCCAGAATCATGTGGAGGGGCCAGAGGCTTGC
CAGACCCCCAGCTGGGCCCTGCTCACCCCTTGTTGCTGGGCTTGGAGGGGCCTCTTGAGGAACTTTTAATTGCA
GGGGTGCCCGCTATGGACGGGCATTCCAGCTGAGACACTGTGATTTTAAATTAAATCTTTGTGGTCTT

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FIGURE 5202

MWPGILVGGARVASCRYPALGPRLAAHFPAQRPPQRTLQNGLALQRC LHATATRALPLIPIVEQTGRGERAYDI
YSRLLRERIVCVMGPIDDSVASLVIAQLLFLOSESNNKPIHMYINSPGGVV TAGLAIYDTMQYILNP ICTWCVGQ
AASMGSLLLAAGTPGMRHSLPNSRIMIHQPSGGARGQATDIAIQAE EIMKLKKQLYNIYAKHTKQSLQVIESAME
RDRYMSPMEAQEFGILDKVLVHPPQDGEDEPTLVQKEPVEAAPAAEPVPAST

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FIGURE 5203

TGTGGAGCGAAGCCTTGTTCCCGCGTTGAGCCGCCGCCGCCGCCGCCCTCCTCAGCTTCAGCCTCCGCGCCAG
GCCCCGCCCCCGCCGCGCCATGTTCGGACTACAGCACGGGAGGACCCCCGCCCCGGGCCGCCGCCGCCGCCGCCGCGG
GGCGGGGGGAGCCGGAGGCGCCGGGGGAGGCCCTCCGCCGGGCCGCCAGGCGCGGGGGACCGGGGCGGCGGCGGT
CCCTGCGGGCGGCCCGGGCGGGGGTCCGCCGGGGGCCCTCTCAGCCACCCGGCGGAGGCGGCCCGGGAATC
CGCAAGGACGCTTTTCGCCGACGCCGTGCAGCGGGCCCGCCAGATTGCAGCCAAAATTGGAGGCGATGCTGCCACG
ACAGTGAATAACAGCACTCCTGATTTTGGTTTTGGGGGCCAAAAGAGACAGTTGGAAGATGGAGATCAACCGGAG
AGCAAGAAGCTGGCTTCCCAGGGAGACTCAATCAGTTCTCAACTTGGACCCATCCATCCTCCCCAAGGACTTCA
ATGACAGAAGAGTACAGGGTCCCAGACGGCATGGTGGGCTGATCATTGGCAGAGGAGGTGAACAAATTAACAAA
ATCCAACAGGATTACAGGCTGCAAAGTACAGATTTCTCCAGACAGCGGTGGCCTACCCGAGCGCAGTGTGTCTTG
ACAGGAGCCCCAGAATCTGTCCAGAAAGCCAAGATGATGCTGGATGACATTGTGTCTCGGGTCTGTGGGGGCCCC
CCAGGACAGTTCCACGACAACGCCAACGGGGGCCAGAACGGCACCGTGCAGGAGATCATGATCCCCGCGGGCAAG
GCCGGCTGGTCATTGGCAAGGGCGGGGAGACCATTAAAGCAGCTGCAGGAACGCGCTGGAGTGAAGATGATCTTA
ATTCAGGACGGATCTCAGAATACGAATGTGGACAAACCTCTCCGCATCATTGGGGATCCTTACAAAGTGCAGCAA
GCCTGTGAGATGGTGATGGACATCCTCCGGGAACGTGACCAAGGCGGCTTTGGGGACCGGAATGAGTACGGATCT
CGGATTGGCGGAGGCATCGATGTGCCAGTGCCAGGCATTCTGTTGGCGTGGTCATTGGCCGGAGTGGAGAGATG
ATCAAGAAGATCCAGAATGATGCTGGCGTGCGGATACAGTTCAAGCAAGATGACGGGACAGGGCCCCGAGAAGATT
GCTCATATAATGGGGCCCCCAGACAGGTGCGAGCACGCAGCCCGGATCATCAACGACCTCCTCCAGAGCCTCAGG
AGTGGTCCCCCAGGTCTCCAGGGGTTCCAGGCATGCCCCGGGGGGCCGAGGCCGAGGAAGAGGCCAAGGCAAT
TGGGGTCCCCCTGGCGGGGAGATGACCTTCTCCATCCCCACTCACAAGTGTGGGCTGGTCATCGGCCGAGGTGGC
GAGAATGTGAAAGCCATAAACCAGCAGACGGGAGCCTTCGTAGAGATCTCCCGGCAGCTGCCACCCAACGGGGAC
CCCAACTTCAAGTTGTTTCATCATCCGGGGTTACCCCGAGCAGATTGACCACGCCAAGCAGCTTATCGAGGAAAAG
ATCGAGGGTCTCTCTGCCAGTTGGACCAGGCCAGGTGGCCAGGCCCCCTGCTGGCCCAATGGGGCCCTTCAAT
CCTGGGCCCTTCAACAGGGGCCACCCGGGGCTCCCCACATGCCGGGGGGCCCCCTCCTCACCAGTACCCACCC
CAGGGCTGGGGCAATACCTACCCCGAGTGGCAGCCGCTGCTCCTCATGACCCAAGCAAAGCAGCTGCAGCGGCC
GCGGACCCCAACGCCGCGTGGGCCGCTACTACTACACTACTACCAGCAGCCCCCGGGCCCCGTCCCCGGCCCC
GCACCGGGCCCCCTGCGGCCCCACCGGCTCAGGGTGAGCCCCCTCAGCCCCCACCCACCGGCCAGTCGGACTACACT
AAGGCCTGGGAAGAGTATTACAAAAAGATCGGCCAGCAGCCCCAGCAGCCCGGAGCGCCCCCACAGCAGGACTAC
ACGAAGGCTTGGGAGGAGTACTACAAGAAGCAAGCGCAAGTGGCCACCGGAGGGGGTCCAGGAGCTCCCCAGGC
TCCCAGCCAGACTACAGTGCCGCTGGGCGGAATATTACAGACAGCAGGCCGCTTACTACGGACAGACCCAGGT
CCTGGCGGCCCCCAGCCGCCGCCACGCAGCAGGGACAGCAGCAGGCTCAATGAAATCGAATGAATGTGAACTTCT
TCATCTGTGAAAAATCTTTTTTTTTTCCATTTTGTCTGTTTGGGGGCTTCTGTTTTGTTTGGCGAGAGAGCGAT
GGTGCCGTGGGGAGTACTGGGGAGCCCTCGCGGCAAGCAGGTGGGGGGGACTTGGGGGCATGCCGGGCCCTCAC
TCTCTCGCTGTTCTGTGTCTCACATGCTTTTTCTTTCAAATTTGGGATCCTTCCATGTTGAGCCAGCCAGAGAA
GATAGCGAGATCTAAATCTCTGCCAAAAAAAAAAAAAATTTAAAAATTAAAAACACAAAGAGCAAAGCAGAACTT
ATAAAATTATATATATATATATATTAATAAGTCTCTATTCTTACCCCCCAGCCTTCTGAACTGCTCTCTGAGG
ATAAAGCAATTCAATTTCTCCACCCCTCGGCCCTCTGTTTTTAAATAAACTTTTAAAAAGGAAAAAAAAAAGT
CACTCTTGCTATTTCTTTTTTTTAGTTAGAGGTGGAACATTCTTGGACCAGGTGTTGTATTGCAGGACCCCTTC
CCCCAGCAGCCAAGCCCCCTCTTCTCTCCCTCCCGCCCTGGCTCAGCTCCCGCGGGCCCCCGCCGTCCCCCTCCC
AGGACTGGTCTGTTGTCTTTTCATCTGTTCAAGAGGAGATTGAACTGAAAACAAAATGAGAACAACAAAAAAA
TTGTATGGCAGTTTTTACTTTTTATCGCTCGTTTTTAACCTCACAAATAAATGATAACAAAACCTCAAAAAAAA
AAAAAAA

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FIGURE 5204

MSDYSTGGPPPGPPPPAGGGGGAGGAGGGPPPGPPGAGDRGGGGPCGGGPGGGSAGGPSQPPGGGGPGIRKDAFA
DAVQRARQIAAKIGGDAATTVNNSTPDFGFGGQKRQLEDGDQPESKKLASQGDSISSQLGPIHPPRTSMTEEYR
VPDGMVGLIIIGRGGEQINKIQDMSGCKVQISPDSGGLPERSVSLTGAPESVQKAKMMLDDIVSRGRGGPPGQFHD
NANGGQNGTVQEIMIPAGKAGLVIGKGGETIKQLQERAGVKMILIQDGSQNTNVDKPLRIIGDPYKVQQACEMVM
DILRERDQGGFGDRNEYGSRIGGGIDVPVPRHSVGVVIGRSGEMIKKIQNDAGVRIQFKQDDGTGPEKIAHIMGP
PDRCEHAARIINDLLQSLRSGPPGPPGGPGMPPGGRGRGRGQGNWGPPGGEMTFSIPTHKCGLVIGRGGENVKAI
NQQTGAFVEISRQLPPNGDPNFKLFIIRGSPQQIDHAKQLIEEKIEGFLCPVGP GPGGPGPAGPMGPFNPGPFNQ
GPPGAPPHAGGPPPHQYPPQGWGNTYPQWQPPAPHDP SKAAAAAADPNAAWAAAYYSHYYQPPGPVGPAPAPAA
PPAQGEPPQPPPTGQSDYTKAWEEYYKKIGQQPQQPGAPPQQDYTKAWEEYYKKQAQVATGGGPGAPPGSQPDYS
AAWAEYYRQQAAYYGQTPGPGGPQPPPTQQGQQQAQ

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FIGURE 5205A

CTCCTCCCCATCCTCTCCCTCTGTCCCTCTGTCCCTCTGACCCTGCACTGTCCCAGCACCATGGGACCCACCTCA
GGTCCCAGCCTGCTGCTCCTGCTACTAACCACCTCCCCCTGGCTCTGGGGAGTCCCATGTACTCTATCATCACC
CCCAACATCTTGCGGCTGGAGAGCGAGGAGACCATGGTGTGGAGGGCCACGACGCGCAAGGGGATGTTCCAGTC
ACTGTTACTGTCCACGACTTCCCAGGCAAAAACTAGTGTGTCCAGTGAGAAGACTGTGCTGACCCCTGCCACC
AACCACATGGGCAACGTACCTTCACGATCCCAGCCAACAGGGAGTTCAAGTCAGAAAAAGGGGCGCAACAAGTTC
GTGACCGTGCAGGCCACCTTCGGGACCCAAGTGGTGGAGAAGGTGGTGTGCTGGTCAGCCTGCAGAGCGGGTACCTC
TTCATCCAGACAGACAAGACCATCTACACCCCTGGCTCCACAGTTCTCTATCGGATCTTCACCGTCAACCACAAG
CTGCTACCCGTGGGCCGGACGGTTCATGGTCAACATTGAGAACCCGGAAGGCATCCCGGTCAAGCAGGACTCCTTG
TCTTCTCAGAACAGCTTGGCGTCTTGCCCTTGTCTTGGGACATTCCGGAACTCGTCAACATGGGCCAGTGGAAG
ATCCGAGCCTACTATGAAAACCTACCACAGCAGGTCTTCTCCACTGAGTTTGAGGTGAAGGAGTACGTGCTGCC
AGTTTCGAGGTTCATAGTGGAGCCTACAGAGAAATTCTACTACATCTATAACGAGAAGGGCCTGGAGGTACCATC
ACCGCCAGGTTCTCTACGGGAAGAAAGTGGAGGGAACTGCCTTTGTCTCTTCGGGATCCAGGATGGCGAACAG
AGGATTTCCCTGCCTGAATCCCTCAAGCGCAATTCCGATTGAGGATGGCTCGGGGGAGGTTGTGCTGAGCCGGAAG
GTACTGTGTCAGCGGGGTGCAGAACCCCGAGCAGAAGACCTGGTGGGGAAGTCTTTGTACGTGTCTGCCACCGTC
ATCTTGCACTCAGGCAGTGACATGGTGCAGGCAGAGCGCAGCGGGATCCCCATCGTGACCTCTCCCTACCAGATC
CACTTCACCAAGACACCCCAAGTACTTCAAACCAGGAATGCCCTTTGACCTCATGGTGTTCGTGACGAACCCGTGAT
GGCTCTCCAGCCTACCGAGTCCCCGTGGCAGTCCAGGGCGAGGACACTGTGCAGTCTCTAACCAGGGAGATGGC
GTGGCCAAAACCTCAGCATCAACACACACCCCGAGCCAGAAGCCCTTGAGCATCACGGTGGCGACGAAGAAGCAGGAG
CTCTCGGAGGCAGAGCAGGCTACCAGGACCATGCAGGCTCTGCCCTACAGCACCGTGGGCAACTCCAACAATTAC
CTGCATCTCTCAGTGCTACGTACAGAGCTCAGACCCGGGGAGACCCTCAACGTCAACTTCCTCTCGGAATGGAC
CGCGCCACAGAGGCCAAGATCCGCTACTACACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGGCGGGACGC
CAGGTGCGAGAGCCCCGGCCAGGACCTGGTGGTGTGCCCCCTGTCCATCACCACCGACTTCATCCCTTCCTTCCGC
CTGGTGGCGTACTACACGTGATCGGTGCCAGCGGCCAGAGGGAGGTGGTGGCCGACTCCGTGTGGGTGGACGTC
AAGGACTCCTGCGTGGGCTCGCTGGTGGTAAAAAGCGGCCAGTCAGAAGACCGGCAGCCTGTACCTGGGCAGCAG
ATGACCTGAAGATAGAGGGTGACCACGGGGCCCGGGTGGTACTGGTGGCCGTGGACAAGGGCGTTCGTGCTG
AATAAGAAGAACAACTGACGCAGAGTAAGATCTGGGACGTGGTGGAGAAGGCAGACATCGGCTGCACCCCGGGC
AGTGGGAAGGATTACGCCGGTGTCTTCTCCGACGCAGGGCTGACCTTCACGAGCAGCAGTGGCCAGCAGACCGCC
CAGAGGGCAGAACTTCAGTGCCCCGAGCCAGCCGCCCGCCGACGCCGTTCCGTGCAGCTCACGGAGAAGCGAATG
GACAAAGTCGGCAAGTACCCCAAGGAGCTGCGCAAGTGTGCGAGGACGGCATGCGGGAGAACCCCATGAGGTTT
TCGTGCCAGCGCCGACCCGTTTCATCTCCCTGGGCGAGGCGTGCAAGAAGGTCTTCTGGAAGTGTGCAACTAC
ATCACAGAGCTGCGGCGGCAGCACGCGCGGGCCAGCCACCTGGGCTGGCCAGGAGTAACCTGGATGAGGACATC
ATTGCAGAAGAGAACATCGTTTCCCGAAGTGAGTTCCAGAGAGCTGGCTGTGGAACGTTGAGGACTTGAAAGAG
CCACCGAAAAATGGAATCTCTACGAAGCTCATGAATATATTTTTGAAAGACTCCATCACCACGTGGGAGATTCTG
GCTGTGAGCATGTGCGACAAGAAAGGGATCTGTGTGGCAGACCCCTTCGAGGTCACAGTAATGCAGGACTTCTTC
ATCGACCTGCGGCTACCTACTCTGTTGTTTCAAACGAGCAGGTGGAAATCCGAGCCGTTCTCTACAATTACCGG
CAGAACCAAGAGCTCAAGGTGAGGGTGGAACCTCCACAATCCAGCCTTCTGCAGCCTGGCCACCACCAAGAGG
CGTCACCAGCAGACCGTAACCATCCCCCCCCAAGTCCTCGTTGTCCGTTCCATATGTCATCGTGCCGCTAAAGACC
GGCCTGCAGGAAGTGGAAGTCAAGGCTGCTGTCTACCATCATTTTCATCAGTGACGGTGTGAGGAAGTCCCTGAAG
GTCGTGCCGGAAGGAATCAGAATGAACAAAACCTGTGGCTGTTTCGCACCCTGGATCCAGAACGCTGGGCCGTGAA
GGAGTGCAGAAAGAGGACATCCCACCTGCAGACCTCAGTGACCAAGTCCCGGACACCGAGTCTGAGACCAGAATT
CTCCTGCAAGGGACCCCAAGTGGCCAGATGACAGAGGATGCCGTGACGCGGAACGGCTGAAGCACCTCATTGTG
ACCCCTCGGGCTGCGGGGAACAGAACATGATCGGCATGACGCCCACGGTCATCGCTGTGCATTACCTGGATGAA
ACGGAGCAGTGGGAGAAGTTTCGGCCTAGAGAAGCGGCAGGGGGCCTTGAGCTCATCAAGAAGGGGTACACCCAG
CAGCTGGCCTTCAGACAACCCAGCTCTGCCTTTGCGGCCTTCGTGAAACGGGCACCCAGCACCTGGCTGACCGCC
TACGTGGTCAAGGTCTTCTCTCTGGCTGTCAACCTCATCGCCATCGACTCCCAAGTCCTCTGCGGGGCTGTTAAA
TGGCTGATCCTGGAGAAGCAGAAGCCCGACGGGGTCTTCCAGGAGGATGCGCCCGTGATACCAAGAAATGATT
GGTGGATTACGGAACAACAACGAGAAAGACATGGCCCTCACGGCCTTTGTTCTCATCTCGCTGCAGGAGGCTAAA
GATATTTGCGAGGAGCAGGTCAACAGCCTGCCAGGCAGCATCACTAAAGCAGGAGACTTCCTTGAAGCCAACCTAC

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FIGURE 5205B

ATGAACCTACAGAGATCCTACACTGTGGCCATTGCTGGCTATGCTCTGGCCCAGATGGGCAGGCTGAAGGGGCCT
CTTCTTAACAAATTTCTGACCACAGCCAAAGATAAGAACCGCTGGGAGGACCCTGGTAAGCAGCTCTACAACGTG
GAGGCCACATCCTATGCCCTCTTGGCCCTACTGCAGCTAAAAGACTTTGACTTTGTGCCTCCCGTCGTGCGTTGG
CTCAATGAACAGAGATACTACGGTGGTGGCTATGGCTCTACCCAGGCCACCTTCATGGTGTTC AAGCCTTGGCT
CAATACCAAAAGGACGCCCCTGACCACCAGGAAGTGAACCTTGATGTGTCCCTCCAAGTCCCAGCCGACGCTCC
AAGATCACCCACCGTATCCACTGGGAATCTGCCAGCCTCCTGCGATCAGAAGAGACCAAGGAAAAATGAGGGTTTC
ACAGTCACAGCTGAAGGAAAAGGCCAAGGCACCTTGTCGGTGGTGACAATGTACCATGCTAAGGCCAAAGATCAA
CTCACCTGTAATAAATTCGACCTCAAGGTCACCATAAAACCAGCACCGGAAACAGAAAAGAGGCCTCAGGATGCC
AAGAACACTATGATCCTTGAGATCTGTACCAGGTACCGGGGAGACCAGGATGCCACTATGTCTATATTGGACATA
TCCATGATGACTGGCTTTTGCTCCAGACACAGATGACCTGAAGCAGCTGGCCAATGGTGTGACAGATACATCTCC
AAGTATGAGCTGGACAAAAGCCTTCTCCGATAGGAACACCCTCATCATCTACCTGGACAAGGTCTCACACTCTGAG
GATGACTGTCTAGCTTTCAAAGTTCACCAATACTTTAATGTAGAGCTTATCCAGCCTGGAGCAGTCAAGGTCTAC
GCCTATTACAACCTGGAGGAAAGCTGTACCCGTTTCTACCATCCGGAAGGAGGATGGAAAGCTGAACAAGCTC
TGCCGTGATGAAGTGTGCCGCTGTGCTGAGGAGAATTGCTTCATACAAAAGTCGGATGACAAGGTCACCCCTGGAA
GAACGGCTGGACAAGGCCTGTGAGCCAGGAGTGGACTATGTGTACAAGACCCGACTGGTCAAGGTTT CAGCTGTCC
AATGACTTTGACGAGTACATCATGGCCATTGAGCAGACCATCAAGTCAGGCTCGGATGAGGTGCAGGTTGGACAG
CAGCGCACGTTTCATCAGCCCCATCAAGTGCAGAGAAGCCCTGAAGCTGGAGGAGAAGAACTACCTCATGTGG
GGTCTCTCCTCCGATTTCTGGGGAGAGAAGCCCAACCTCAGCTACATCATCGGGAAGGACACTTGGGTGGAGCAC
TGGCCCGAGGAGGACGAATGCCAAGACGAAGAGAACCAGAAACAATGCCAGGACCTCGGCGCCTTCACCGAGAGC
ATGGTTGTCTTTGGGTGCCCCAACTGACCACACCCCCATTCC

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FIGURE 5206

GGCCGCGGTGGTGGCTGCGGCGGCGGCGGCGGGAGCAGCATGGATTGGGGCACTGAGCTGTGGGATCAGTTGAG
GTGCTCGAGCGCCACACGCAGTGGGGGCTGGACCTGTTGGACAGATATGTAAAGTTCGTGAAAGAACGCACCGAA
GTGGAACAGGCTTACGCCAAACAACCTGCGGAGCCTGGTGAAAAAATATCTGCCCAAGAGACCTGCCAAGGATGAT
CCTGAGTCCAAATTCAGCCAGCAACAGTCCTTCGTACAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGG
GAGCTGGTGGCTGAGAACCTCAGTGTCCGTGTATGTCTTGAGCTGACCAAGTACTCACAAGAGATGAAACAGGAG
AGGAAGATGCACTTCCAAGAAGGGCGGCGGGCCCAGCAGCAGCTGGAAAATGGCTTTAAACAGCTGGAGAATAGT
AAGCGTAAATTTGAGCGGGACTGCCGGGAGGCAGAGAAGGCAGCCCAGACTGCTGAACGGCTAGACCAGGATATC
AACGCCACCAAGGCTGATGTGGAGAAGGCCAAGCAGCAAGCCCACCTTCGGAGTCACATGGCCGAAGAAAGCAAA
AACGAATATGCGGCTCAACTGCAGCGCTTCAACCGAGACCAAGCCCACCTTCTATTTTTTACAGATGCCCCAGATA
TTCGATAAGCTCCAAGACATGGATGAACGCAGGGCCACCCGCTGGGTGCCGGGTATGGGCTCCTGTGCGGAGGCC
GAGCTGGAGGTGGTGCCATAATAGCCAAGTGCTTGAGAGGCAATGAAGGTGGCTGCAATGCTGTGGATCCCAAG
AACGACTCCCACGTCTTATAGAGCTGCACAAGTCAGGTTTTGCCCGCCGGCGACGTGGAATTCGAGGACTTC
AGCCAGCCCATGAACCGTGCACCCTCCGACAGCAGTCTGGGCACCCCCCTCGGATGGACGGCCTGAACTCCGAGGC
CCGGGTCGCAGCCGCACCAAGCGCTGGCCTTTTGGCAAGAAGAACAAGACAGTGGTGACCGAGGATTTTAGCCAC
TTGCCCCCAGAGCAGCAGCGAAAACGGCTTCAACAGCAGTTGGAAGAACGCAGTCGTGAACTTCAGAAGGAGGTT
GACCAGAGGGAAGCCCTAAAGAAAATGAAGGATGTCTATGAGAAGACACCTCAGATGGGGGACCCGCCAGCTTG
GAGCCCCAGATCGCTGAAACCCTGAGCAACATTGAACGGCTGAAATTGGAAGTGCAGAAGTATGAGGCGTGGCTG
GCAGAAGCTGAAAGTCGAGTCCTTAGCAACCGGGGAGACAGCCTGAGCCGGCACGCCCGGCCTCCCGACCCCCC
GCTAGCGCCCCGCCAGACAGCAGCAGCAACAGCGCATCACAGGACACCAAGGAGAGCTCTGAAGAGCCTCCCTCA
GAAGAGAGCCAGGACACCCCCATTTACACGGAGTTTGATGAGGATTCGAGGAGGAACCCACATCCCCCATAGGT
CACTGTGTGGCCATCTACCACCTTTGAAGGGTCCAGCGAGGGCACTATCTCTATGGCCGAGGGTGAAGACCTCAGT
CTTATGGAAGAAGACAAAGGGGACGGCTGGACCCGGGTCAGGCGGAAAGAGGGAGGCGAGGGCTACGTGCCACC
TCCTACCTCCGAGTCACGCTCAATTGAACCCTGCCAGAGACGGGAAGAGGGGGGCTGTGCGCTGCTGCTTCTGGG
CCACGGGGAGCCCCAGGACCTATGCACCTTTATTTCTGACCCCGTGGCTTCGGCTGAGACCTGTGTAACCTGCTGC
CCCCCACCACCCCAACCCAGTCCTACCTGTACACCGGACGGACCCGCTGTGCCTTCTACCATCGTTCCACCATT
GATGTACATACTCATGTTTTACATCTTTTCTTTCTGCGCTCGGCTCCGGCCATTTTGTGTTTTATACAAAATGGGT
TTTTTTTTTTTCTTTAATATATTTCAAGAGATTTTTTTTTTTTTTTTTTTTT

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FIGURE 5207

MDWGTELWDQFEVLERHTQWGLDLLDRYVKFVKERTEVEQAYAKQLRSLVKKYLPKRPAKDDPESKFSQQQSFVQ
ILQEVNDFAGQRELVAENLSVRVCLELTKYSQEMKQERKMHFQEGRRQQQLENGFKQLENSKRKFERDCREAEK
AAQTAERLDQDINATKADVEKAKQQAHLRSHMAEESKNEYAAQLQRFNRDQAHFYFSQMPQIFDKLQDMERRAT
RLGAGYGLLSEAELEVVP IIAKCLEGMKVAANAVDPKNDSHVLIELHKSGFARPGDVEFEDFSQPMNRAPSDSSL
GTPSDGRPELRGPGRSRTKRWPFGKKNKTVVTEDFSHLPPEQQRKRLQQQLEERSRELQKEVDQREALKKMKDVY
EKTPQMGDPASLEPQIAETLSNIERLKLEVQKYEAWLAEASRVLSNRGDSLRSRHARPPDPPASAPPDSSSNSAS
QDTKESSEEPPEESQDTPITYTEFDEDFEEPTSPIGHCVAIYHFEGSSEGTISMAEGEDLSLMEEDKGDGWTRV
RRKEGGEGYVPTSYLRLVTLN

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FIGURE 5208

CGGGGGTGACAGCAGCCCCGGAGCCGGAGCCCTCAGCTTCCGCCTGGACCCAGCCTCGTGGGAGCCCCGCGGGTC
CTGCCCAGATGTGGAAGACTGAGGCCTGTTGAAAGTGCAGAGCTCAGCCCTGGCACCCCTCTGTTCCCAAGAGCTC
CATGCAGGTGCCACAGGATGGAGAAGACCTTGCTGGCCAACCCTGGTACCACGGCCTCCTGTCCCGCCAGAAGGC
TGAAGCTCTTCTTCAGCAAGATGGCGACTTCCTGGTTTCGCGCCTCTGGGTCCCGTGGGGGCAACCCCGTGATCTC
CTGCCGCTGGCGGGGCTCAGCCCTCCATTTTGAGGTGTTCCGTGTGGCCCTGCGTCCCCGGCCAGGCCGACCCAC
AGCCCTCTTTCAACTGGAGGATGAGCAATTCCCCAGCATAACGGCTCTGGTTCACAGTTATATGACAGGCAGGCG
CCCCTGTCCCAGGCCACAGGGGCTGTGGTCTCCAGGCCTGTGACTTGGCAGGGGCTCTGCGACGCAGCTTTAG
CGAGGACACCCCTGATGGATGGCCCAGCTCGGATAGAGCCTCTCAGGGCAAGGAAGTGGAGCAACAGTCAGCCTGC
AGATTTGGCACATATGGGGCGGTCAAGAGAAGACCCGCTGGGATGGAAGCCTCCACCATGCCCATATCTGCCTT
GCCCCGAACGAGCAGTGACCCGGTGTGCTGAAGGCCCTGCTCCCCTGGGAAGTGTGCGACAGTCTCAGGGC
CTCCGATGGGCAGCTTCAAGCCAAGGCACCAACGAAGCCCCCGGACACCCCTCCTTCGAAGTGCCTGATGCCTC
TGAACGTCCCCGACGTACTGCGAGCTGGTGGCCGAGTGCCAGTGTCCAGGGAACATCCCCGAGCCAAAGCTG
CCCAGAGCCAGAGGCCCCATGGTGGGAGGCCGAGGAGGATGAGGAGGAAGAGAATAGATGTTTTACAAGACCACA
GGCTGAGATCTCTTTCTGCCCCCATGATGCCCCCTCCTGCCTGCTGGGCCCCAGAATCGGCCCTGGAACCCCA
AGTCTGCATACCCCTCCGTGGCCTGTTCTGAGGACCATCCTGGGAGCACCGCCCTTCACCTGCTATTGGTAGA
CTGCCAGGCCACAGGCCTCCTGGGAGTGACCAGAGATCAGCGGGCAACATGGGAGTCTCATCTGGCCTGGAGCT
GCTCACTCTTCCCCATGGACACCACTTGAGGTTGGAAGTGTGAGAGGCATCAGACACTGGCGCTGGCCGGGGC
GCTGGCGGTGCTGGGCTGCTCGGGGCCGCTGGAGGAGCGCGCAGCCGCACTGAGGGGACTGGTAGAGCTGGCGCT
GGCGCTGCGGCCAGGGGCGGCGGGGGACCTGCCCGGGCTGGCTGCAGTCACTGGGCGCCCTGCTCATGCCCCAGGT
GTCCCGGTTGGAGCACACGTGGCGCCAGCTCCGAAGGAGCCACACGGAGGCTGCGCTGGCCTTTGAGCAGGAGCT
GAAGCCGCTGATGCGGGCTCTGGATGAGGGCGCTGGACCCTGCGACCCCGCGAGGTGGCGCTGCCGCACGTGGC
ACCCATGGTTTCGCTACTGGAGGGCGAGGAAGTCGCGGGGCGCTGGACGAGAGCTGTGAGCGGCTGTTGCGCAC
CCTGCACGGGGCGCGTCACATGGTCCGGGACGCACCCAAATTCCGCAAGGTGGCAGCCAGCGCCTGCGAGGATT
CCGGCCTAACCCGGAGCTGAGGGAGGCCCTGACCACCGGCTTCGTGCGGAGGCTGCTCTGGGGTAGCCGGGGCGC
GGGAGCTCCGCGCGCTGAACGCTTTGAGAAGTTCCAGCGCGTCTCGGCGTCTGTGCGCAGCGCCTGGAGCCTGA
CCGCT**GA**GAGCGCAGACACCCTTCTTCACACCCGGGACCCCAAGTTTTTGCGAACCCAGAAGAGACCAAGGA
GTCGTCCCAGGCTCCTCGCGCCTCAGGTGGAATCCTGCCCTGTGCCTCACAGAAGAGGTGGGGACCGCAGTCAGG
GTCACCTGGACCATGGTGAACATGTGACCTGCAGATCTGGCATCAGAGGCCAGAGTTCAAATGTGACTCCACCTC
TTAAAAGCCGTGATTTCTAGCAGTTGACTTCACCTCTGTGTGGCCCTTTAACAAAATCATAGCCATACAGCAGCT
CAGGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGAAGGAAGGCTTGAGGCCAGGAGTTCAAGACCAGCCAG
GGCAACATGGTGAGACCTCATCTCTACAAAACTGAAAAATAAAAACTTTTAAAAAATGTAAAAA

AA

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FIGURE 5209

MQVPQDGEDLAGQPWYHGLLSRQKAEALLQQDGDFLVRASGSRGGNPVISCWRGSSALHFEVFRVALRPRPGRPT
ALFQLEDEQFPSIPALVHSYMTGRRPLSQATGAVVSRPVTWQGPLRRSFSEDTLMDGPARIEPLRARKWSNSQPA
DLAHMGRSREDPAGMEASTMPIISALPRTSSDPVLLKAPAPLGTVADSLRASDGQLQAKAPTKPPRTPSFELPDAS
ERPPTYCELVPRVPSVQGTSPSQSCPEFEAPWWEAEDEEEENRCFTRPQAEISFCPHDAPSCLLGPNRPLEPQ
VLHTLRGLFLEHHPGSTALHLLLVDQCQATGLLGVTRDQRGNMGVSSGLELLTLPHGHHLRLELLERHQTLALAGA
LAVLGCSGPLEERAAALRGLVELALALRPGAAGDLPGLAAVMGALLMPQVSRLEHTWRQLRRSHTAALAFEQEL
KPLMRALDEGAGPCDPGEVALPHVAPMVRLLEGEVAGPLDESCERLLRTLHGARMVRDAPKFRKVAAQRLRGF
RPNPELREALTTGFVRRLLWGSRGAGAPRAERFEKFQRVLGVLQRLEPDR

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FIGURE 5210

AGGGAAGACACGCGTGACCCGGAAGGTCTTCCCGCCACACTCCAGAGCGGATGTGAGGGGCGCCGATGGCGGAGG
GAACGGCGGAGGCTCCTCTAGAGAATGGTGGTGGTGGCGACTCGGGAGCCGGAGCTTTGGAACGAGGAGTGGCGC
CCATTAAGCGTCAATACCTCACCACCAAGGAGCAGTTTCACCAATTCCTGGAAGCCAAAGGGCAGGAGAAGACTT
GCCGGGAAACCGAGCTGGACATCCGTGGCAAACCTTTACCTGGCCCCCCTCACCACGTGTGGGAACCTGCCCTTCC
GACGGATCTGCAAGCGCTTCGGGGCGGATGTGACATGTGGAGAGATGGCCGTCTGCACCAACCTGCTGCAGGGCC
AGATGTCCGAGTGGGCCCTACTCAAACGCCACCAGTGTGAGGACATCTTTGGCGTCCAGCTGGAGGGCGCCTTCC
CCGACACCATGACCAAGTGTGCCGAGCTGCTGAGCCGCACCGTGGAGGTGGACTTTGTGGACATCAACGTCGGCT
GCCCCATCGACCTCGTGTACAAGAAGGGTGGGGGCTGTGCCCTCATGAATCGCTCCACCAAGTTCCAGCAGATCG
TCCGTGGCATGAACCAGGTGCTGGATGTGCCGCTGACTGTGAAGATCCGCACAGGCGTCCAGGAGCGTGTGAACC
TGGCGCACCGCCTGCTGCCCCGAGCTGCGGGACTGGGGCGTGGCACTCGTCACGCTCCACGGCCGCTCTCGGGAGC
AGCGCTACACCAAGCTAGCCGACTGGCAGTACATCGAGGAGTGCCTGCAGGCCGCCAGCCCCATGCCCTGTTTCG
GAAATGGGGACATCTTGTCATTTGAGGATGCCAACC CGCCATGCAGACTGGTGTACCGGGATCATGATTGCC
GTGGCGCCCTGCTCAAGCCGTGGCTCTTCACGGAGATCAAGGAGCAGCGGCACTGGGACATCTCGTCGTCCGAGC
GCCTGGACATCCTGCGGGACTTCACCAACTACGGCCTGGAGCACTGGGGCTCGGACACGCAGGGCGTGGAGAAGA
CCCGGCGCTTTCTGCTCGAGTGGCTGTCCTTCCTGTGCCGGTACGTGCCCGTGGGGCTGCTGGAGCGGCTCCCAC
AGAGGATCAACGAGCGGCCGCCCTACTACCTGGGCCCGCGACTACCTGGAGACGCTGATGGCCAGCCAGAAGGCAG
CCGACTGGATCCGCATCAGCGAGATGCTCCTTGGGCCAGTGCCCCCAGCTTCGCCTTCTTGCCGAAGCACAAAGG
CCAACGCGTACAAGTAGCCTCAGGCTTTCCAGGGGCACCCCTGGGGCGAGGAGGTACAATAAATTTTATTCTTT
T

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FIGURE 5211

MAEGTAEAPLENGGGGDSGAGALERGVAPIKRQYLTTKEQFHQFLEAKGQEKTCRETEVGDPAGNELAEPEAKRI
RLEDGQTADGQTEEAEPGEQLQTQKRARGQNKGRPHVKPTNYDKNRLCPSLIQESAAKCFFGDRCRFLHDVGRY
LETKPADLGPRCVLFETFGRCPYGVTCRFAGAHLRPEGQNLVQEELAARGTQPPSIRNGLDKALQQQLRKREVR
ERAEQALRRFSQGPTPAAAVPEGTAAGAPRQENCGAQQVPAGPGTSTFPSSPVRTCGPLTDEDVVRLRPCEKKR
LDIRGKLYLAPLTTCGNLPFRRICKRFGADVTCGEMAVCTNLLQGQMSWALLKRHQCEDIFGVQLEGAFPDMT
KCAELLSRTVEVDFVDINVGCPIDLVYKKGCGCALMNRSTKFQQIVRGMNQVLDVPLTVKIRTGVQERVNLHRL
LPELRDWGVALVTLHGRSREQRYTKLADWQYIEECVQAASPMPLFGNGDILSFEDANRAMQTGVTGIMIARGALL
KPWLFTEIKEQRHWDISSERLDILRDFTNYLEHWGSDTQGVEKTRRFLEWLSFLCRYVPVGLLERLPQRINE
RPPYYLGRDYLETLMASQKAADWIRISEMLLGPVPPSFAFLPKHKNAYK

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FIGURE 5212

CGGGTTTTCCAATCTCTGTGTAGCTAGCAGTTCTCTTCGTGTTAGTGTGGCAGCCGTGCCAGTTCACATTTGTG
ATTGCTTTATTTCCCTGGTAATTAAACCTTGTGCCATTCTATTCCCTGTTAAATCCGTAGAAAATGAGAAAATACT
CGACATTTTGGGGGAAACTTGTAAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAGCCATTTGCACA
GGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGC GGAGGAAGAGGACCTATTTGACAGCGCCCATCCGGAAGA
GGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTGTTAGCGGTAGT
GAAAAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTAGAGCCGGCAGT
TGAGCAGAGTAGTGGGCTCCGAGCTCGCGGAGGCTCTAGCGAGGAGCTCGCAGAAGCACCCACGGAAGCCCC
AAGCCCAGAAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGTAATGAAGTCCCTCCGGC
TCCTAAAGAGTCCCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGGTTTGTTTTTCTCAGTTTTAGACCAGACG
CTATCTCCTTTTCATTGGTCATGTAATGACACACATAAGCTGTTTTTTCTGCAATTGGCCAGCCAGACTGACGA
AATTGTAGTTTTGCTTCTAAAGAATGTTTCGTTTTCTTTGTGTGTTTTTAATGGGTGATTCAATTCCTTTTCTT
TTTCTCAACCTACCATGGTTGTGTTCTTAAATTCTTCCTAATTACCTTTAGCCCAGCAGAATTAATTAACCTCTG
TGGGTCTGAAATCTTATGGTTAGGTCAGATTTTCAATACAAGTTTGTGCGGGTATCATTTTTTTCAGAACTAAATT
TCGGGTAGGTATGCAACCTCAGCACGAATTTTATGGTTTTGAGTTTGTTCCTCCATGCTGCTTCCTTGTGGAGT
GACATTGTCTTTTGTCTCTAGTTCTCCCGAAGATGACTCGGATACAAAAAGGCTTTCCAAAGAGGAAAAGGGTCG
CAGCAGTTGTGGTAGAAATTTCTGGGTTAGTGGACTCTCTTCTACAACCAGAGCTACAGATTTGAAGAATCTTTT
CAGCAAAATATGGGAAGGTGGTGGGCGCCAAGGTTGTGACAAATGCCCGGAGTCTGGAGCTCGCTGTTACGGTTT
TGTCACGATGTCCACAGCAGAAGAGGCCACAAAATGCATTAACCACTGCACAAGACGGAGCTCCACGGAAGAT
GATCTCCGTGGAGAAAAGCCAAAAATGAACCTGTGGGAAAGAAAACCTCTGACAAAAGAGACAGTGACGGGAAAAA
GGAGAAGTCGAGCAACAGTGACAGATCTACAAACCTTAAGAGGGATGATAAATGTGACAGAAAAGATGATGCTAA
GAAGGGTGACGACGGAAGTGGAGAAAAGAGTAAGGACCAAGATGATCAGAAACCTGGCCCTCAGAGCGATCTCG
AGCCACAAAGTCAGGAAGTCGAGGGACCGAACGGACTGTAGTAATGGATAAATCCAAAGGGGTGCCTGTGATTAG
TGTA AAAACGTCCGGGTCCAAAGAGAGAGCTTCCAAAAGCCAGGATCGCAAATCAGCCAGCAGAGAGAAGCGGTC
CGTCGTGTCCTTTGATAAGGTCAAGGAGCCTCGGAAGTCAAGAGACTCAGAGTCCCATAG

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FIGURE 5213

CGAACTCCGCCCCCTCTTCTCCGCGTAGGCCCCAGCTCCCTGAAGCGGCTGTTTCGAGCCACGCGCCCATCGGGTA
CCGAGGCACGCGCCGGGCGTACGTGCGTTTTGCGGGCAGCGGAAATGACGCGAGTTGTGTAGCCGCCAGTATG
GCCGGGCTATGGCGGCGAGCACTGGCTACGTGCGACTGTGGGGAGCGGCGCGGTGCTGGGTGCTGCGGCGGCCGA
TGCTGGCCGCCGCCGGGGGGCGGGTTCCCACTGCAGCAGGAGCGTGGTTGCTCCGAGGCCAGCGGACCTGCGACG
CCTCTCCTCCTTGGGCACTGTGGGGCCGAGGCCCGGCAATTGGGGGGCCAATGGCGGGGGTTTTGGGAAGCGAGCA
GCCGCGGCGGAGGCGCATTCTCGGGGGCGAGGACGCTCCGAGGGCGGCGCGGAGGAAGGAGCCGGCGGCGCGG
GGGGCAGCGCGGGCGCCGGGGAAGGCCCGGTACATAACGGCGCTCACGCCCCATGACGATCCCCGATGTGTTTTCCGC
ACCTGCCGCTCATCGCCATCACCCGCAACCCGGTGTTCGCCGCTTTATCAAGATTATCGAGGTTAAAAATAAGA
AGTTGGTTGAGCTGCTGAGAAGGAAAGTTTCGTCTCGCCAGCCTTATGTCGGCGTCTTTCTAAAGAGAGATGACA
GCAATGAGTCGGATGTGGTCGAGAGCCTGGATGAAATCTACCACACGGGGACGTTTGCCAGATCCATGAGATGC
AGGACCTTGGGGACAAGCTGCGCATGATCGTCATGGGACACAGAAGAGTCCATATCAGCAGACAGCTGGAGGTGG
AGCCCGAGGAGCCGGAGGCGGAGAACAAGCACAAAGCCCCGAGGAAGTCAAAGCGGGGCAAGAAGGAGGCGGAGG
ACGAGCTGAGCGCCAGGCACCCGGCGGAGCTGGCGATGGAGCCCCACCCCTGAGCTCCCGGCTGAGGTGCTCATGG
TGGAGGTAGAGAACGTTGTCCACGAGGACTTCCAGGTCACGGAGGAGGTGAAAGCCCTGACTGCAGAGATCGTGA
AGACCATCCGGGACATCATTGCCTTGAACCCCTCTCTACAGGGAGTCAGTGCTGCAGATGATGCAGGCTGGCCAGC
GGGTGGTGGACAACCCCATCTACCTGAGCGACATGGGCGCCGCGCTCACCGGGGCCGAGTCCCATGAGCTGCAGG
ACGTCCTGGAAGAGACCAATGTGGAGGAGAAGATCAAGCAGACCCACCGTAAQTACCTGCTGCAGGAGCAGCTAA
AGATCATCAAGAAGGAGCTGGGCCTGGAGAAGGACGACAAGGATGCCATCGAGGAGAAGTTCGGGGAGCGCCTGA
AGGAGCTCGTGGTCCCCAAGCACGTATGGATGTTGTGGACGAGGAGCTGAGCAAGCTGGGCCTGCTGGACAACC
ACTCCTCGGAGTTCAATGTCACCCGCAACTACCTAGACTGGCTCACGTCCATCCCTTGGGGCAAGTACAGCAACG
AGAACCTGGACCTGGCGCGGGCACAGGCAGTGCTGGAGGAAGACCACTACGGCATGGAGGACGTCAAGAAACGCA
TCCTGGAGTTTCATTGCCGTTAGCCAGCTCCGCGGCTCCACCCAGGGCAAGATCCTCTGCTTCTATGGCCCCCTG
GCGTGGGTAAAGACCAGCATTGCTCGCTCCATCGCCCGCGCCCTGAACCGAGAGTACTTCCGCTTCAGCGTCGGGG
GCATGACTGACGTGGCTGAGATCAAGGGCCACAGGCGGACCTACGTGGGCGCCATGCCCGGGAAAGATCATCCAGT
GTTTGAAGAAGACCAAGACGGAGAACCCCTGATCCTCATCGACGAGGTGGACAAGATCGGCGGAGGCTACCAGG
GGGACCCGTCGTCGGCACTGCTGGAGCTGCTGGACCCAGAGCAGAATGCCAACTTCCTGGACCACTACCTGGACG
TGCCCGTGGACTTGTCCAAGGTGCTGTTTCATCTGCACGGCCAACGTACGGACACCATCCCCGAGCCGCTGCGAG
ACCGTATGGAGATGATCAACGTGTCGGGCTACGTGGCCAGGAGAAGCTGGCCATTGCGGAGCGCTACCTGGTGC
CCCAGGCTCGCGCCCTGTGTGGCTTGGATGAGAGCAAGGCCAAGCTGTTCATCGGACGTGCTGACGCTGCTCATCA
AGCAGTACTGCCGCGAGAGCGGTGTCCGCAACCTGCAGAAGCAAGTGGAGAAGGTGTTACGGAAATCGGCCTACA
AGATTGTCAGCGGCGAGGCCGAGTCCGTGGAGGTGACGCCCCGAGAACCTGCAGGACTTCGTGGGGAAGCCCGTGT
TCACCGTGGAGCGCATGTATGACGTGACACCGCCCGCGTGGTTCATGGGGCTGGCCTGGACCGCAATGGGAGGCT
CCACGCTGTTTGTGGAGACATCCCTGAGACGGCCACAGGACAAGGATGCCAAGGGTGACAAGGATGGCAGCCTGG
AGGTGACAGGCCAGCTGGGGGAGGTGATGAAGGAGAGCGCCCGCATAGCCTACACCTTCGCCAGAGCCTTCCTCA
TGCAGCACGCCCCGCCAATGACTACCTGGTGACCTCACACATCCACCTGCATGTGCCCCAGGGCGCCACCCCCA
AGGACGGCCCAAGCGCAGGCTGCACCATCGTCACGGCCCTGCTGTCCCTGGCCATGGGCAGGCCTGTCCGGCAGA
ATCTGGCCATGACTGGCGAAGTCTCCCTCACGGGCAAGATCCTGCCTGTTGGTGGCATCAAGGAGAAGACCATTG
CGGCCAAGCGCGCAGGGGTGACGTGCATCGTCCCTGCCAGCCGAGAACAAGAAGGACTTCTACGACCTGGCAGCCT
TCATCACCGAGGGCCTGGAGGTGCACTTCGTGGAACACTACCGGGAGATCTTCGACATCGCCTTCCCGGACGAGC
AGGCAGAGGCGCTGGCCGTGGAACGGTGACGGCCACCCCGGACTGCAGGCGGCGGATGTGAGGCCCTGTCTGGG
CCAGAACTGAGCGCTGTGGGGAGCGCGCCCGGACCTGGCAGTGGAGCCACCGAGCGAGCAGCTCGGTCCAGTGAC
CCAGATCCCAGGGACCTCAGTCGGCTTAATCAGAGTGTGGCATAGAAGCTATTTAATGATTAAAGTCATTTCGAG

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FIGURE 5214

GGAGGGCTTAAGGAAGTAAAATGCGCGACCTGGCGAACGAAGAAAAGCCTGCCATTGCTCCGCCCGTCTTTGTGT
TTCAGAAGGATAAAGGACAAAAGTCCCCTGCAGAGCAAAAAAAGTTGTTCGGATTTCGGGAGAGGAGCCTCGGGGGG
AGGCTGAGGCCCCCACCATGGCACGGGTACCCCGAGTCAGCTGGCGAGCATGCCCTAGAACCTCCTGCCCTG
CTGGCGCCTCAGCCAGCACTCCTCCGCCTCCCGCTCCTGAAGCCCAGCTTCCTCCTTTTCCGCGAGAAGTGGCAG
GGAGGTTCAGCTGGCGGCTCCAGTCTGAAGGCGGAGAAGATTCTGACAGAGAAGATGGAAATTACTGCCCTCCTG
TCAAGCGAGAAAGAACATCCTCTTTAACCCAGTTCCACCCCTCACAGTCAGAGGAAAGGAGCAGTGGCTTCCGGT
TGAAGCCACCAACGCTGATCCACGGCCAAGCCCCAGCGCAGGTCTGCCAAGCCAGAAGCCCAAGGAGCAGCAGC
GGAGCGTGCTTCGCCCCGCGAGTGTTACAAGCTCCGCAGCCAAAGGCGCTGTCCCAGACTGTCCCCAGCAGTGGCA
CCAACGGGGTTCAGCTCCCAGCAGACTGCACGGGGGCGAGTGGCCGACAGCATCCCCTGACACTGCTGCATGGAGAA
GTCCTTCCGAAGCTGCCGATGAGGAGAAAGAGCCCCAGAAAAATGAGTCCAGCAATGCCTCTGAAGAGGAAGCCT
GTGAGAAAAAAGACCCCCGCCACACAGCAAGCCTTTGTATTTGGGCAGAACTTGAGGGACAGAGTTAAGCTGATAA
ATGAGAGCGTGGACGAAGCCGACATGGAGAATGCTGGACACCCAGCGCAGACACGCCAACCGCAACGAACTATT
TCCTCCAGTATATCAGTTCCAGTTTAGAGAACTCAACCAATAGTGCCGACGCCTCCAGCAACAAATTTGTATTTG
GCCAGAACATGAGCGAGCGAGTTTGTAGCCCCCAAATTAACGAGGTTCAGTTTCAGATGCCAACAGGGGAAAATG
CAGCTGCCGAGTCAGGGTCTGAGTCTCGTCCCAGGAGGCCACCCCTGAGAAAGGGTCCCTGGCTGAGTCCGGCAG
CCGCTACACCAAGGCAACAGCGCGGAAGTGTTTGTGGAAAAAGTGGAAGTCATCACCGGGGAGGAGGCGGAGA
GCAATGTGTTACAGATGCAGTGCAAGCTGTTTGTCTTTGACAAGACCTCACAGTCCCTGGGTGGAGAGAGGCGGG
GGCTGCTCAGACTCAATGACATGGCGTCCACCGATGACGGCACACTACAGTCCCGACTAGTGATGCGGACCCAGG
GGAGCCTGCGACTGATCCTCAACACCAAGCTGTGGGGCCAGATGCAGATCGACAAGGCCAGCGAGAAGAGCATTC
GCATCACAGCCATGGACACCGAGGACCAGGGCGTGAAGGTCTTCCTGATCTCGGCCAGCTCCAAGGACACAGGTG
AGTTGTATGCAGCCCTGCACCACCGCATCCTGGCCCTGCGCAGCCGCGTGGAGCAGGAGCAGGAGGCCAAGATGC
CCGCGCCTGAGCCTGGGGCAGCCCCATCCAACGAGGAGGACGACAGCGACGATGACGATGTCTGGCTCCTTCAG
GGGCCACCGCAGCTGGTGCTGGTGACGAAGGGGACGGGCAGACGACCGGGAGCACATAGCGGCCGGGAGCCCCGGC
TGCACACCAGGCTGCTGCTTTGTCCGTCTATCCACCCGCCACCCGCCCCACCCACCGGCAGCGTCCAGGTGC
GGGGCCGGGAACACACACCCCACTGGGCCGGCCACAGTCTGGACCCGCACGTCTGTTCAAAAGCAGACTCGGG
AACTGCCTGAATGTGGTTTGGGACACGAGACCTCATCATATTGATGAGCGAACAACAAGAACATTTCTCCTCCTC
CCCTCCTTTGAATTGAAATGGCACATTAAGACTTGTACGGCTTCTCACTGGGACTGGAGACCTCGTTCTCCTCAC
CCGCGTGTTCGCCAGCCTCTGGGTCCAGCCAGAGCCCCCTGGCTTCTCCGCCACCCACACCTTCCCACCTGCTG
TGGGGCCCTGCCTTTGTGGGGAGCAGCCAGCCCTCTGCCCTGCCAGGGCTCCCCAACTATAGGCCTGGGACCC
CCGCCAGCTTGGGGGGCTGCTCGTACGAGTGTAGACACTGGGCCCATTTGGACGTGCTGTTAACTACTATCTTCA
TTTCCCACTTCCCCTCTCTGATTGGGGGTGTATATTTACATCTTTTTTTCTTTTTATTTTCGAAGGCTTTGTTT
TGGTTTCTTAGGTTAAGATGCTCTCGAGCGTTGAGCAGGCACAGCTCTGTGAGGTCCCTGTCCCCACCTGTGG
TTCTGGCCTCTGAGGTTGGGGGACTACTTGTTTCCACCCCAAGTTCCTCCAGGCCAAGTCATGGGGTGATGAGG
AGTTGGGGCCCTGTCTGTCTAGGCCTGGAGAGTGCTGTGGGAAAAGGTCACTGGACCTGGAAGGGTCCCCA
GGGTCCCCTGACTCCCGTCTCCATCTGTACGTGGTTACCATCATCAGGCACCAGGCGCAAAGTCTTCCCGCT
GTTGGCCATCCCTTCCCCAGCCACAGGTGTCCCTGCCCCCAGGACAGTCCAGGGCCAGGGGCTTCTGTGAGAGGC
AGAGGGGGACCCCTACCAAATCTTGGTGGAAGAGCCCCAGGGCTGGTCCCAGAACAGGCAGTCTACAAGCACGC
AGCACACTGGAGTGGACGCCTGTGCCACCCGAGCCTGGAGCATGGCCAAGAGCCAGCTTGACCACCCACCTGG
GAGGCCGAGGAGGAGGTCCCCTGGGCACAGGGCCTCTTTGGGACTTCAGAGGAAATCTCCAGTCCCACTCTCGG
AGGGTTAAGAGAAGGCCTCCTGCAGCTGTGCCGTCCACACCTCTAGGTGCGCCAGAGCCCTGCCCCAGCCCCAG
CAAGCCTGAGCCCGGGAAGAACCAGAGGCCCTCCCAGAGACCCAGTCAACAGTCTCTGCTTTAAGCCTTAGCCA
GCTAGTGACGAGTACAACGAGATAACGCCCATGTGTTTTGGAACATTTATGTAAGATTGTCATATGAAATGTATT
TGGGAACATATAAATTTTAACTAAAAA

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FIGURE 5215

MADLANEEKPAIAPPVVFVQKDKGQKSPAEQKNLSDSGEEPRGEAEAPHHGTGHPESAGEHALEPPAPAGASAST
PPPPAPEAQLPPFPRELAGRSAGGSSPEGGEDSDREDGNYCPPVKRERTSSLTQFPQSSEERSSSGFRLKPPTLI
HGQAPSAGLPSQKPKEQQRSVLRPAVLQAPQPKALSQTVPSSGTNGVSLPADCTGAVPAASPDTAAWRSPSEAAD
EEKEPQKNESNASEEEEACEKKDPATQQAFFVFGQNLDRVKLINESVDEADMENAGHP SADTPTATNYFLQYISS
SLENSTNSADASSNKFFVFGQNMSEVLSPPKLNEVSSDANRENAEAESGSESSSQEATPEKGLAESAAAYTKAT
ARKCLLEKVEVITGEEAESNVLMQCKLFVFDKTSQSWVERGRGLRLNDMASDDGTLQSRVMRTQGSLRLIL
NTKLWQMIDKASEKSIRITAMDTEDQGVKVFLISASSKDTGQLYAALHHRILALRSRVEQEAEAKMPAPEPGA
APSNEEDDSDDDDVLAPSGATAAGAGDEGDGQTTGST

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FIGURE 5216

TGCGCGTGCGCAGGGATAAGAGAGCGGTCTGGACAGCGCTGGCCGGCGCCGCTGTGGGGACAGCATGAGCGGCG
GTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGGCTCTGGGCCTGGCGCTGCTGCTGCTGCTCGGCCTCGGAC
TAGGCCTGGAGGCCGCCGCGAGCCCGCTTTCCACCCCGACCTCTGCCCAGGCCGCGAGGCCCCAGCTCAGGCTCGT
GCCCACCCACCAAGTTCCAGTGCCGCACCAGTGGCTTATGCGTGCCCTCACCTGGCGCTGCGACAGGGACTTGG
ACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGGATTGAGCCATGTACCCAGAAAGGGCAATGCCACCGCCCC
CTGGCCTCCCCCTGCCCCTGCAACGGCGTCAGTGACTGCTCTGGGGGAAGTGAACAAGAACTGCGCAACTGCAGCC
GCCTGGCCTGCCTAGCAGGCGAGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACG
GCCACCCAGACTGTCCCGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGGAAGGGGATGCCA
CAACCATGGGGCCCCCTGTGACCCTGGAGAGTGTACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGA
CCCTGGAGAGTGTCCCTCTGTGCGGAATGCCACATCCTCCTCTGCCGGAGACCAGTCTGGAAGCCCAACTGCCT
ATGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGCAAGCCTGGTCACCGCCACCCTCCTCCTTTTGTCTGGCTCC
GAGCCCAGGAGCGCCTCCGCCCACTGGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTCAGAACAGAAGA
CCTCGCTGCCCCTGAGGACAAGCACTTGCCACCACCGTCACTCAGCCCTGGGCGTAGCCGGACAGGAGGAGAGCAG
TGATGCGGATGGGTACCCGGGCACACCAGCCCTCAGAGACCTGAGCTCTTCTGGCCACGTGGAACCTCGAACCCG
AGCTCCTGCAGAAAGTGGCCCTGGAGATTGAGGGTCCCTGGACACTCCCTATGGAGATCCGGGGAGCTAGGATGGG
GAACCTGCCACAGCCAGAACTGAGGGGCTGGCCCCAGGCAGCTCCCAGGGGGTAGAACGGCCCTGTGCTTAAGAC
ACTCCTGCTGCCCCGTCTGAGGGTGGCGATTAAAGTTGCT

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FIGURE 5217

MSGGWMAQVGAWRTGALGLALLLLLGLGLGLEAAASPLSTPTSAQAAGPSSGSCPPTKFQCRTSGLCVPLTWRC
RDLD CSDGSDEEEECRIE PCTQKGQC P P P PGLPCPCTGVSDCSGGTDKKLRNCSRLACLAGELRCTLSDDCIPLTW
RCDGHPDCPDSSDELGCGTNEILPEGDATTMGPPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGS
PTAYGVIAAAAVLSASLV TATLLLLSWLRAQERLRPLGLLVAMKESLLLSEQKTSLP

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FIGURE 5218A

CCTCGCTCAAGGAGCACCCCCGGGGCACCCTCCTGTCCGATGGCAGCCCCGGCCCTGTCCAGGAATGTCGGTATGA
CGGTCTCTCAGAAAGGGGGTCCCCAGCCAACACCGAGCCCGGCTGGCCCTGGGACGCAACTCGGACCAATCACAG
GAGAGATGGATGAAGCCGATTCTGCGTTTTTTAAAATTTAAGCAGACAGCTGATGACTCTCTGTCCCTTACATCTC
CAAACACCGAGTCCATTTTTGTAGAAGATCCCTACACCGCCTCGCTGAGGAGTGAGATTGAGTCAGACGGCCACG
AGTTTGAAGCTGAGTCTTGAGCCTCGCCGTGGATGCAGCCTACGCCAAGAAGCAAAAAGAGGGAGGTGGTGAAAA
GACAAGATGTCTTTATGAGCTGATGCAGACAGAGGTGCACCACGTGCGGACGCTCAAGATCATGCTGAAGGTGT
ACTCCAGGGCCCTGCAGGAGGAGCTGCAGTTCAGCAGCAAGGCCATTGGCCGCTCTTCCCATGCGCTGACGACC
TGCTGGAGACGCACAGCCACTTCTCGCTCGGCTCAAGGAGCGCCGCCAGGAGTCCCTGGAGGAGGGCAGTGACC
GGAATTATGTATCCAGAAAATCGGCGACCTCCTGGTTCAGCAGTTTTTCAGGTGAAAAATGGGGAGAGAATGAAAG
AAAAGTACGGTGTGTTTTGTAGTGGCCACAATGAAGCTGTTAGTCATTACAAGTTGCTGCTTCAGCAAAACAAGA
AATTTCAAAACTTGATCAAGAAAATTGGCAACTTCTCCATCGTGCAGCGGCTTGGCGTGACGGAGTGCAATTCTCC
TGGTTACACAACGCATAACCAAATACCCAGTGCTGGTGGAGCGCATCATCCAGAACACGGAAGCTGGCACTGAGG
ACTATGAAGACCTGACCCAGGCCTGAACCTCATCAAGATATCATCTCACAAGTGACGCCAAGGTCAGTGAGT
GTGAGAAGGGCCAGCGCTCAGGGAGATCGCAGGGAAGATGGACCTGAAGTCTTCCAGCAAACTCAAGAACGGGC
TCACCTTCCGCAAGGAAGACATGCTTCAGCGGCAGCTCCACCTGGAGGGCATGCTATGCTGGAAGACCACATCAG
GGCGCTTGAAAAGATATCCTGGCTATCCTGCTGACCGACGTACTTTTGCTGCTACAAGAAAAAGATCAGAAATACG
TCTTTGCTTCTGTGGACTCAAAGCCACCCGTATCTCGTTACAAAAGCTCATCGTGAGGGAAGTGGCCAACGAGG
AGAAAAGCGATGTTTCTGATCAGCGCCTCCTTGCAAGGGCCGGAGATGTATGAAATCTACACGAGCTCCAAAGAGG
ACAGGAACGCTGGATGGCCACATCCAAAGGGCTGTGGAGAGCTGCCCTGACGAGGAGGAGGGGCCCTTCAGCC
TGCCCCAAGAGGAAAGGAAGGTGGTCGAGGCCCGCGCCACGAGACTCCGGGACTTTCAGAGCGGTTGAGCATGA
AAGACCAGCTGATCGCACAGAGCCTCCTAGAGAAACAGCAGATCTACCTGGAGATGGCCGAGATGGGCGGCCTCG
AAGACCTGCCCCAGCCCCGAGGCCTATTCCGTGGAGGGGACCCATCCGAGACCTGACGGGGGAGCTAATTCTCA
AGTCGGCCATGAGCGAGATCGAGGGCATCCAGAGCCTGATCTGCAGGCAGCTGGGCAGCGCCAACGGCCAGGCGG
AAGACGGAGGCAGTCCACAGGCCCGCCAGGAGGGCTGAGACCTTCGCGGGCTACGACTGCACAAACAGCCCCA
CCAAGAATGGCAGTTTCAAGAAGAAAGTCAGCAGCACTGACCCAGGCCCCGAGACTGGCGAGGGCCCCCAAACA
GCCCCGACTTGAAGCTCAGTGACAGTGACATTCTGGGAGCTCTGAGGAATCGCCGAGGTGGTGGAGGCGCCAG
GCACGGAATCCGATCCCCGTCTGCCACCGTCTGGAGTGGAGCTTGTCCAGCGGATCCAGACACTGTCCAGC
TGCTCCTGAACCTTCAGGCGGTAATCGCCACACAGGACAGCTATGTGGAGACGCAGCGGGCTGCCATCCAGGAGC
GGGAGAAGCAGTTCGGCTGCAGTCGACGCGTGGGAACCTGCTGCTGGAGCAGGAGCGGCAACGCAACTTCGAGA
AGCAGCGGGAGGAGCGCGCGGCCCTGGAGAAGCTGCAGAGCCAGCTGCGGCACGAGCAGCAGCGCTGGGAGCGCG
AGCGCCAGTGGCAGCACCAGGAGCTGGAGCGTGCAGGCGCGCGGCTGCAGGAGCGCGAGGGCGAGGCGCGGCAGC
TACGCGAGCGGCTGGAGCAGGAGCGGGCCGAGCTGGAGCGCCAGCGCCAGGCCTACCAGCACGACCTGGAGCGGC
TGCGCGAGGGCCAGCGTGCCGTGGAGCGGAGCGGGAGCGCCTGGAGCTGCTGCGCCGCTCAAGAAGCAGAACA
CCGCGCCAGGCGCGCTGCCGCCCCGACACACTGGCCGAGGCCAGCCCCCAAGCCACCCTCCAGCTTCAACGGGG
AAGGGCTGGAGGGCCCTCGTGTGAGCATGCTGCCATCCGGCGTGGGGCCAGAGTACGCAGAGCGCCCCGAGGTGG
CTCGCCGGGACAGCGCCCCACCAGAGAACC GGCTGGCCAAGAGCGATGTGCCATCCAGCTGCTCAGCGCCACCA
ACCAGTTCCAGAGGCAGGCGGCCGTGCAGCAGCAGATCCCCACCAAGCTGGCGGCCCTCCACCAAGGTTGGCAAGG
ACAAGGGCGGCAAGAGCAGGGGCTCTCAGCGCTGGGAGAGCTCAGCGTCTTTCGACCTGAAGCAGCAGCTGTGC
TCAACAAGCTCATGGGGAAAGATGAGAGCACCTCACGGAACCGCCGCTCGCTGAGCCCTATCTGCCCGGCAGAC
ACAGTCTGCGCCCCACCAGACCCTGGCTTCCCCGCCCCGAGCCACCGCCAGCTGACAGCCCCCTCCGAGGGCT
TCTCTCTCAAGGCCGGGGGCACAGCCCTCCTGCCCGGGCCCCAGCTCCCTCGCCACTGCCGGCCACACCACTCA
GCGCCAAGGAGGACGCCAGCAAAGAAGACGTATCTTCTTCTAAAAGGGCCGTGACTCAAGGAAAGTTTTTAATG
GAAAGTTGAGCCAGAATAAACCAGGGAGCTGTCTGAAATCATAGCACCCCATCCGGGTGGCGGGGAGATCAACT
CCGAGCTGTTTTTCCGAGGCAGTGAGGAACGGTGCCGGCTCTGCACGGAGCTGAGGACAGGACAGACCTTGCTTT
GAGAAGGAGCTGCCGGCCGGGGCCACGCTCCACAGCCGCCGCGCGACAGTGGAGCCAAGGGTTAGGGCACCAGGA
GGGGCCAGGTGGCGTCGGCAGCATCTGTCCCCAGAATCAGGCAGAATCCACTTCCCAAACAGAGCCCCACGCAGG
TTCACCATGAACCTCAGGGTCAGGGAATGAGCCAGGCACGGGGGCATGGGCAGAGAGGGCCACGGGGCAGGGCCC
ACTGAGGGAACATCAGTGGCCCTCCAGTCAGGTTCTGTGGGTTTGAAGCCCATCGTGAAAGGGGCTGACCTTTG

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FIGURE 5218B

CCCCTTTTTACTTGGCATTGGTTTTGAAACCAGCTGTTTCCCAAACCTCTGCTTCCCAAGGGCAACCGTTGCTGTT
CACACGCTCAGCCTGTCTGGGGGAGCGGGCCTCTAGCTTCAGCCAGGGCGGGTACACACCCTGGGCACAGGGTCC
TCAGCCCCCGGGAAATGAGCTCCCAGGGCTGGCGTCCCACCTTCCAGGTGGGGGCTGGCACATCACAGACTGTCTG
AGAGCGCCATGTCCCAGGGCATGCAGAGGATGCACCTAGAGACGTTGCAGCAAGTGGACAAGTGGCCGCTGTGCG
GGCCCCCTCGCTTGTAGTGAGCTGTTGCAGCTTACGGTCCGTTCCCTGGAGGGGTGGAGGAAGGAGGTGTTGGGCA
GCATCAAAGGTGCTGGGACATCCCAGGGTGGTGAGATCCATCCACGATCCAGCTCCGGTGGAGAAAGGGCCCATG
TCAAGCCTTGTTCTGCACCCCAAGCATTGGTGGTAGGACTGGGTCTGGCTGATCGTCCTTGTTCCCAGTGGGGT
ACATGTGAGCCCCTGCCAGGGCCAAGTCCTTCTCCCGAACCCAGGGTCTGGGAAGTGCAGATCCCGGGGGGATT
CAGCCCTTCTCCCACTGTGCTGGCAGAGGCACTCCTGTGACGCTGAATACAGTGAACAGGGACATTCCCGCCACT
CGGGGACAGATGGGCACAAGGGAGGGGAAACTCCATCAGGAAGTGCTCCCCTGGGCAGAGGCGCCCACTGGGTGC
TGTGGGCTCAGGAGGGGGCGGGGCAGGAGCTGGTGCCAACCGGAACCAGAGCCCCACAGCCATACAGCCCATTG
GTGACAAGGTCTTGAGAACACAGTGGCCAGGTGTCCCCAGGCTCCTGGCCCCCTCCGACGACCTCAACTCTGCCCA
GCCCCGTCCCTGGCCATCAGCGACGCTGTCCGCCCCCGTCAGATCCCATGTGTGCCATGTTTATCATCAGTGTT
TTGTATTTTTTGTACTGAGTATCGGAGCACTTTACAGAAGCTGACTGTACATTCTGTTCTGTTGTGAAGAGAACA
TTCCCAGACCCTGGCACCCCTCCTGAGCCGGCGTGTGCCGGTCCAGCCCTCCGAGATGCCACAATTCCTTGGAATGG
GGGAGAAGTTCAAGGAATTTCTGCTCGGCCACGCGGTGGGAACCCCGCGTCCCGCCATGTGGCAGAGGGGTCTC
AGTCGTGCTAGGCATCGGGCGGCAGCGCCGACAGCCCTTCCCTCGCCAGTGGCCCTCGGCCACTCCTGGGTGGA
GCCCGATTTTATTTGTAAAGTTGACAGTCGAGCAAATGTTCTATTTTTCGTGGGATCTGCACACGTCTTTGTCAG
TTGTGGTCATGATCTTAGTCACCTGCTAATTATTTTACAATGATTACAACATTTCTCTACTGCGGGATATTTCT
GACCCGCTTTAGAACTTAAGACCTGATTCTAGCAATAAACGTGTCCGAGATG

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FIGURE 5219

TCTCCTGTACCTGGGCATCCAGAAAAATGTTGGTGATGGCGGACTCTCGCGGCCCGAGCGGCCGGACCTTGTCT
TCGAGGAAGAGGACCTCCCCTATGAGGAGGAAATCATGCGGAACCAATTCTCTGTCAAATGCTGGCTTCGCTACA
TCGAGTTCAAACAGGGCGCCCCGAAGCCCAGGCTCAATCAGCTATACGAGCGGGCACTCAAGCTGCTGCCCTGCA
GCTACAAACTCTGGTACCGATACCTGAAGGCGCGTCGGGCACAGGTGAAGCATCGCTGTGTGACCGACCCCTGCCT
ATGAAGATGTCAACAACTGTCATGAGAGGGCCTTTGTGTTTCATGCACAAGATGCCTCGTCTGTGGCTAGATTACT
GCCAGTTCCTCATGGACCAGGGGCGCGTCACACACACCCGCCGACCTTCGACCGTGCCCTCCGGGCACTGCCCA
TCACGCAGCACTCTCGAATTTGGCCCCTGTATCTGCGCTTCTGCGCTCACACCCACTGCCTGAGACAGCTGTGC
GAGGCTATCGGCGCTTCTCAAGCTGAGTCCTGAGAGTGCAGAGGAGTACATTGAGTACCTCAAGTCAAGTGACC
GGCTGGATGAGGCCGCCAGCGCTGGCCACCGTGGTGAACGACGAGCGTTTCGTGTCTAAGGCCGGCAAGTCCA
ACTACCAGCTGTGGCACGAGCTGTGCGACCTCATCTCCAGAAATCCGGACAAGGTACAGTCCCTCAATGTGGACG
CCATCATCCGCGGGGGCCTCACCCGCTTACCCGACCAGCTGGGCAAGCTCTGGTGTCTCTCGCCGACTACTACA
TCCGCAGCGGCCATTTGAGAAGGCTCGGGACGTGTACGAGGAGGCCATCCGGACAGTGATGACCGTGCGGGACT
TCACACAGGTGTTTGACAGCTACGCCCAGTTCGAGGAGAGCATGATCGCTGCAAAGATGGAGACCGCCTCGGAGC
TGGGGCGCGAGGAGGAGGATGATGTGGACCTGGAGCTGCGCCTGGCCCCGCTTCGAGCAGCTCATCAGCCGGCGGC
CCCTGCTCCTCAACAGCGTCTTGCTGCGCCAAAACCCACACCACGTGCACGAGTGGCACAAGCGTGTGCGCCCTGC
ACCAGGGCCGCCCGGGAGATCATCAACACCTACACAGAGGCTGTGCAGACGGTGGACCCCTTCAAGGCCACAG
GCAAGCCCCACACTCTGTGGGTGGCGTTTGCCAAGTTTTATGAGGACAACGGACAGCTGGACGATGCCCGTGTCA
TCTTGGAGAAGGCCACCAAGGTGAACCTTCAAGCAGGTGGATGACCTGGCAAGCGTGTGGTGTCAAGTGCAGGAGC
TGGAGCTCCGACACGAGAAGTACGATGAGGCCTTGGCGCTGTGCGAAAGGCCACGGCGCTGCCCTGCCCGCCGGG
CCGAGTACTTTGATGGTTAGAGCCCGTGCAGAACCGCGTGTACAAGTCACTGAAGGTCTGGTCCATGCTCGCCG
ACCTGGAGGAGAGCCTCGGCACCTTCCAGTCCACCAAGGCCGTGTACGACCGCATCCTGGACCTGCGTATCGCAA
CACCCCAGATCGTCATCAACTATGCCATGTTCTTGGAGGAGCACAAGTACTTCGAGGAGAGCTTCAAGGCGTACG
AGCGCGGCATCTCGCTGTTCAAGTGGCCCAACGTGTCCGACATCTGGAGCACCTACCTGACCAAATTCATTGCC
GCTATGGGGGCCGCAAGCTGGAGCGGGCACGGGACCTGTTTGAACAGGCTCTGGACGGCTGCCCCCAAATATG
CCAAGACCTTGTAACCTGCTGTACGCACAGCTGGAGGAGGAGTGGGGCCTGGCCCGGCATGCCATGGCCGTGTACG
AGCGTGCCACCAGGGCCGTGGAGCCCGCCAGCAGTATGACATGTTCAACATCTACATCAAGCGGGCGGCCGAGA
TCTATGGGGTCACCCACACCCGCGCATCTACCAGAAGGCCATTGAGGTGCTGTGCGACGAGCACGCGCGTGAGA
TGTGCCTGCGGTTTGACAGATGGAGTGCAAGCTCGGGGAGATTGACCGCGCCCGGGCCATCTACAGCTTCTGCT
CCCAGATCTGTGACCCCGGACGACCGGCGCGTCTTGGCAGACGTGGAAGGACTTTGAGGTCCGGCATGGCAATG
AGGACACCATCAAGGAAATGCTGCGTATCCGGCGCAGCGTGCAGGCCACGTACAACACGCAGGTCAACTTCATGG
CCTCGCAGATGCTCAAGGTCTCGGGCAGTGCCACGGGACCGTGTCTGACCTGGCCCCCTGGGCAGAGTGGCATGG
ACGACATGAAGCTGCTGGAACAGCGGGCAGAGCAGCTGGCGGCTGAGGCGGAGCGTGACCAGCCCTTGCGCGCCC
AGAGCAAGATCCTGTTCTGTGAGGAGTGACGCTCCCGGGAGGAGCTGGCAGAGCTGGCACAGCAGGTCAACCCCG
AGGAGATCCAGCTGGGCGAGGACGAGGACGAGGACGAGATGGACCTGGAGCCCAACGAGGTTCGGCTGGAGCAGC
AGAGCGTGCCAGCCGAGTGTGTTGGGAGCCTGAAGGAAGACTGACCCGTCCTCCCCCATCCCCCTCCCCACCC
CCTCCCCAATACAGCTACGTTTGTACATC

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FIGURE 5220

MVVMARLSRPERPDLVFEEEDLPYEEEIMRNQFSVKCWLRYIEFKQGAPKPRLNQLYERALKLLPCSYKLWYRYL
KARRAQVKHRCVTDPAVEDVNNCHERAFVFMHKMPRLWLDYCQFLMDQGRVTHTRRTFDRLRALPITQHSRIWP
LYLRFLRSHPLPETAVRGYRRFLKLSPEAEYIEYLKSSDRLEAAQRLATVVNDERFVSKAGKSNYQLWHEL
DLISQNPDKVQSLNVDAIIRGGLTRFTDQLGKLWCSLADYYIRSGHFEKARDVYEEAIRTVM TVRDF TQVFDSYA
QFEESMIAAKMETASELGREEEDDVDELRLARFEQLISRRPLLLNSVLLRQNP HHVHEWHKRVALHQGRPREII
NTYTEAVQTVD PFKATGKPH TLWVAF AKFYEDNGQLDDARVILEKATKVNFKQVDDLASVWCQCGELELRHENYD
EALRLLRKATALPARRAEYFDGSEPVQNRVYKSLKVWSMLADLEESLGTFQSTKAVYDRILDLRIATPQIVINYA
MFLEEHKYFEESFKAYERGISLFWPNVSDIWSTYLTKFIARYGGRKLERARDLFEQALDGCPPKYAKTLYLLYA
QLEEEWGLARHAMAVYERATRAVEPAQQYDMFNIIYIKRAAEIYGVTHTRGIYQKAIEVLSDEHAREMCLRFADME
CKLGEIDRARAIYSFCSQICDPRTTGAFWQ TWKDFEVRHGNE DTI KEMLRIRRSVQATYNTQVNF MASQMLKVSG
SATGTVSDLAPGQSGMDDMKLLEQRAEQLAEEAERDQPLRAQSKILFVRSDASREELAE LAQQVNPEEIQLGED
DEDEMDLEPNEVRLEQQSVPAAVFGSLKED

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FIGURE 5221

ATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATT
GAGCATGAAATGAAGAACGGGATCCCTGCCAATCGAATCGTCCTGGGAGGCTTTTCAAGGGCGGGGCCCTGTCC
CTCTACACGGCCCTCACCTGCCCCACCCGCTGGCTGGTATCGTAGCATCGAGCTGCTGGCTGCCTCTGCACCGG
GCCTTCCCCCAGGCAGCTAAAGGCAGTGGCAAGGGCCTGACCATCCTCCAGTGCCATGGGGAGCTGGACCCCATG
GTGCCCCGTACGGTTTGGGACCCTGACGGCTGTTGTACACCTGCCAGGGTCCAGTTCAAGACATACTCGGGTGTC
ATGCACAGCTGCTGTCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGGAGAAGTTGCTGCCTTCTGTCTAACT
AGTCGCTGGCCCCAGTGCGCCTCCAGGCCCCCAGCCTCTGGGAGAGGGGAGAGAGCTCCTCCTGCCAAGAACACC
AGCCCAGGCCCTGTTTCTAGCCCAGGGCGTGCCAGCGGGACCACCAGACACTTCCGGGCCTACCCAGGAACCCC
GTCCCCGGCCATGGCCCGTCGGTCCCGGGCTGCGGGCACCGAGGTGGGGCTCCCCCGGCCAGCTCCGAGTGCCCG
GCCACGGCCCCCGACAGAGGGCCCCCGGAAATCAGTGAGCAGCGCCTCGGAGCACAGTACCACCGAGCCAAGCCC
GGCTGCCAGGAGGCGGGCCAGCGCCGCCCCGTTCTGGGCCCTCAGCCCGCGGAACACCCAGGGCTCCTGCGCATCC
CTCGCAGCCCAAGCCGAAAGGACTGCAGGCTCTGCGACCCCCCTCAGGTACACCCCCAAGGAAGGACGCAGCCCC
AGCACTAGGACCGCTTTCTTCTCTCCTTTGGCCACACCCCTCTCCATCGGGTACCAAGGCAAGACCCGTACCGCC
TCCCGACAATGCAGCCACTCCCCTGCCAGCCACGCTCCCTCCCTCTCCACCGCCACGCCCCCTCGCAAGTTCCA
CCCACACAGCTGATTATGTCTTTCCAGAAGCAGGCGTCTCTTCCCTGGCCACAGCCGCTTTTGTGGCTTCAGTC
TCTCCATCAGTTTCATCCCCTCTGCAGAGACTCTCTCTTCTGGCCACATTGCCTCTGCAGGCCTCTCCCTCTCC
TTTGACCACAGTCTCTCTGCAGGATCCTCCTCTAGTTTCTCCCTCTCTTTTGGCCTCACCGCCTCTGCAGGCTCC
GCCCCACCCACAGGCCCCACCTTCTATGACTACGCCCCCTATGCAGGCCCCGCCCTCTCTCCAGACCATTCCCCC
AATACAGGTCCCACATTCTCTGACCTCACCGTCTCTGCAGGCACCTCCCTCTCCTCTGGCTTTGTCTCTCTGCA
GGCCACAACCTTTTGGGCTCACCCACTCTGCAGGCCACACATTCTTTCCTGACAATGTCCCCTAG

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FIGURE 5222

GTGCGCCTCTGTCCCCTGCTCTACCTCTCTGTCTTGTCTGGCTCTCCCGTCACCCTCCCTGCCTCTGTCTCTCT
TCTGGCCTGAGCCTGGGCCCAGCCACCTCCTGACCGGAGGGAATCGGTGACGGAGCGGGGCCAAGGGAGGGGTCC
GGAGGGAGTCAGGGATGGAGGGCAGAGGGAGTGGATGTGGGGGTTTGAGGACGTGTGACAAGCTCCAGCAGGGGT
GGGGGCCGGGCTGAGGGTGGGGGTGCGAGGTGGTCACTCCCATCGTGCCCTGGCCGTCCCTCCACTCACCCACA
CCTGGCCCAGTCCACGTTGAGGTCCAGGACTGGGAAGGACCGGGTGAGTGCACCGGGGACCCAGGCCAGGTGCCC
CCCGGAGCCTGCTGGGGTGGCCAGAGCAGGAGGGGGTGTGTTTCCTTTTTGTGGGTGTTGCATGCAAATCAAGTG
GACAAGAAAAAATAACAAAACAAAAACAAGAAAAAACAACAAAACCCCGTAAAATCACAAGAAAAATCCAA
CACCAAAGGCGCAGAAGCCGGCTGGCCGTGGTGGGGGCAGCGTAGGCGTAGCATCCCTCTCCTCTCACTTAGCCT
GTTGACTCTTGTTATTATCATGATATTCACAAAACGCCGCATGTTTAAAAAGTCATAGATGTCATCTTCTCTCTG
CCCCCAGGGAGGAAAGCCACCTTCTCTTGCCCTTGCCCTTTGTCAGGGGCCAGGGGTCTGCCGGGTGGGGT
GCCAACAGGCCTGGCCCTTCTCTCCCTGCATCCAGCCATGGGGGCCTCTGCGATTGCCGGAAGGTTGCATGGCT
GGTCCCAGGGCCAGCACAGGCCCGAGGCCGGGCTGCCTGGTTTTATTTTTATTTAACTTTATTTTTCTGTTTTATG
AGTGTGTGTCCGCCACCCCCACCCCCTTCAGTGTTAAGTGGGGAGCCCTGGGGGAGTCTCTCCTGCCTCCCAGC
CTCTCCCAAGACCTCCCCCTCGTCACCAGCCATCCCTCTGGACCAGGCAGAGGGCGGACCGGGTGGGCAGGGGC
CTGAGGGTGGCTCGGGCCAGCCACCAGCCAATGGACCCCTCCTCAGGCCGCCAGTGTGCCCCTGCCCTTTTTTA
AAACAAAATGCCCTCGTTTGTAACCCTTAGACGCTTGAGAATAAACCCCTTCCTTTTCTTCC

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FIGURE 5223

CGCCGCGAGAAGGTCACACGATTCTCCAACATGGCGGCGGGCGGCCCTGCGGAGTGGCTGGTGCCGCTGTCCACGG
AGATGCCTCGGCAGTGGAATCCAATTTCTTTCCAGCCACAACCTACCCCATGGGTCGACCTATCAGATGCGCCGG
CCGGGCGGAGAGCTGCCACTGTCCAAATCATATTCTTCTGGAAACAGAAAAGGCTTTCTGTCCGGCTTGCTAGAT
AATGTCAAACAAGAATTAGCCAAAAACAAAGAAATGAAAGAAAGTATAAAAAAATTCCGTGACGAGGCCAGAAGG
CTAGAAGAATCAGACGTGCTCCAGGAGGCCAGAAGGAAATACAAAACCATCGAGTCAGAAACCGTGCGGACGAGC
GAGGTGCTACGGAAGAAGCTTGGGGAGCTGACGGGCACCGTGAAGGAGAGCCTTCACGAAGTCAGTAAAAGTGAT
CTCGGCCGGAATCAAGGAGGGCGTGGAGGAAGCAGCCAAGACGGCCAAGCAGTCGGCCGAGTCGGTATCCAAA
GGCGGGGAGAAGCTGGGCAGGACAGCGGCCCTTCAGAGCCCTCTCCAGGGGGTGGAGTCCGTGAAGAAGGAAATT
GACGACAGCGTCCTGGGACAGACCGGGCCCTACCGGAGGCCCCAGCGACTCCGGAAGAGAACGGAGTTTGCGGGA
GATAAGTTCAAGGAGGAGAAAGTGTTTGAGCCAAACGAGGAGGCCCTGGGGGTCGTGCTGCACAAGGACTCCAAG
TGGTACCAGCAGTGGAAGGACTTCAAGGAGAACAACGTGGTGTTTAACCGGTTCTTCGAGATGAAGATGAAGTAT
GACGAAAGCGACAACGCGTTTCATCCGGGCATCCCGGGCCCTTACGGACAAGGTCACCGACTTGCTGGGGGGCCTG
TTCTCCAAGACAGAGATGTCGGAGGTGCTCACGGAGATCCTCCGGGTGGACCCGGCCTTTGACAAGGACCGGTTT
CTGAAACAGTGCGAGAACGACATCATCCCCAATGTCCTGGAGGCCATGATTTCTGGAGAGCTTGACATTCTCAA
GACTGGTGCTATGAAGCTACTTACAGCCAGCTGGCCCCACCCCATCCAGCAGGCCAAGGCACTGGGTCTCCAGTTC
CATTCTCGCATCCTAGACATTGACAACGTGACCTGGCCATGGGCAAGATGATGGAGCAGGGGCCGGTGCTGATC
ATCACCTTCCAGGCACAGCTGGTGATGGTGGTCAGGAACCCCCAAAGGCGAGGTGGTGGAGGGTGACCCGGACAAG
GTGCTGCGGATGCTGTACGTGTGGCGCTCTGCCGAGACCAGGACGAGCTCAACCCCTACGCGGCCTGGCGGCTC
CTGGACATCTCGGCCTCCAGCACCGAGCAGATTCTCTGAGTGTGGTGCCGAGCCAGGTAGCCCCGGCCTGGGTG
ATCAGGCACAGAGGCACCGCAACACCACCTGCGGCAACT

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FIGURE 5224

MAAAALRSGWCRCPRRCLGSGIQFLSSHNLPHGSTYQMRRPGGELPLSKSYSSGNRKGFLSGLLDNVKQELAKNK
EMKESIKKFRDEARRLEESDVLQEARRKYKTIESETVRTSEVLRRKKLGELTGTVKESLHEVSKSDLGRKIKEGVE
EAAKTAKQSAESVSKGGEKLGRTAAFRALSQGVESVKKEIDDSVLGQTGPYRRPQRLRKRTFAGDKFKEEKVFE
PNEEALGVVLHKDSKWYQQWKDFKENNVVFNRRFFEMKMKYDESDNAFIRASRALTDKVTDLLGGLFSKTEMSEVL
TEILRVDPAFDKDRFLKQCENDIIPNVLEAMISGELDILKDWCEATYSQLAHPIQQAKALGLQFHSRILDIDNV
DLAMGKMMEQGPVLIITFQAQLVMVVRNPKGEVVEGDPDKVLRMLYVWALCRDQDELNPYAAWRLLDISASSTEQ
IL

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FIGURE 5225

CGCCGGCTCCGCCCCGTCGGGTGTTTGTGGTGGGGCTGCGGAGTCGCCGATCCCGCCGGAAGCGCCAGGACAAT
GGGGACCCGAGACGACGAGTACGACTACCTATTCAAAGTGGTGCTCATCGGGGACTCAGGCGTGGGCAAGAGCAA
CCTGCTGTCGCGCTTCACCCGCAACGAGTTCAACCTGGAGAGCAAGAGCACCATCGGCGTGGAGTTGCCACCCG
CAGCATCCAGGTGGACGGCAAGACCATCAAGGCGCAGATCTGGGACACCGCTGGCCAGGAGCGCTACCGCGCCAT
CACCTCCGCGTACTACCGTGGTGCAGTGGGCGCCCTGCTGGTGTACGACATCGCCAAGCACCTGACCTATGAGAA
CGTGGAGCGCTGGCTGAAGGAGCTGCGGGACCACGCAGACAGCAACATCGTCATCATGCTGGTGGGCAACAAGAG
TGACCTGCGCCACCTGCGGGCTGTGCCCCTGACGAGGCCCGCGCCTTCGCAGAAAAGAACAACCTTGTCCCTTCAT
CGAGACCTCAGCCTTGGATTCCACTAACGTAGAGGAAGCATTCAAGAACATCCTCACAGAGATCTACCGCATCGT
GTCACAGAAACAGATCGCAGACCGCGCTGCCCACGACGAGTCCCCGGGGAACAACGTGGTGGACATCAGCGTGCC
GCCCACCACGGACGGACAGAAGCCCAACAAGCTGCAGTGTGTCAGAACCTGTGACCCCTGCGCCTCCACCCAGC
GTGCGTGCACGTCTCCGCCCCGCCCCGCCACGGTATCCTCTGGCCCCCTCCCTGCTGTCCCTCTGTGGCCGGGCTC
GTTCCAGCCCTCCAGTGAGCTCTGCACGGCCGGGCGGGGCCCCAGGAAGGACAGGAGCCAGTGCTACCCCGTCC
TGCCCGGGGAAAAGCTAGAAGCCCCGGTTTGTCTGCACCCATGAAACTCGGGTCCCCACAGCGTCTTGGCGGGGTG
GGGAGGGCGGCAGGATGGACGGGGCTGGCCAGAGGCGAGGAGGACGGGCGGACGGCGCCGCTTCTCCCCCTTTTC
CTTGCCGACTCTAGGGAGCGATTGCCTCCCTCCCTCTGTGACCGGGTGGCCCAGCCAGCCCGTCTGTCCTCCACCC
AGAACCGTGCTCTGGGCCAAAGCCCGAAGAACCAGGCAGCGGGGGCGGGGCAGGCGGACCCCCGGGCTCTCAG
CGCCACCCGCTCTCCGCACACAGCAGCTCGCACAGGCCTCCACCTCTGCCTGTTGATTGATGCAGGGAGAAG
CCCGTCCCCCTCTCCCTCTCCCTCCCTCTCCTGCACGCAACGCGCCCTCTCGGCCCTCCCTGTCCCCCTC
CTCTGTCTCGTCTCCCCATCTGGTCTGGAACCTGTTTGCAAGTGAAGCAATATCTCCGTGTTTTGTATATACAAC
CGCTCTTGTAGCCTTTGGTTTTTGTAAATGTAGAGAAACACAGATTCTTTATACATTTGTAAGATTTACGCCAA
ACCCAGCTCTCGATCTCTTCTTCTCCCTGTGGCCCCCTGCGCTGTTGCCCCGTCCCGTCAACCCGCCCCGTTACT
GAAATGTATAATCTGACTTCCTGTACAGAAACCTGC

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FIGURE 5226

CGCGCCGGGAACAGCCAGTCGGTGCCTAACGCGAGTGTATCTCGAGAGAGAAGCGATCAACAGCTGCCGGTCTGC
GCCTGCGCGCGGCGGGGGCGTGGCCCGGGGCGAGTGGGGCCAAGGAGGCAGCCGGGAGCGGCGGGCGCAGGTGTT
ACTGGTTGCGTCGGGTACGTGGGCGCGCAGGCGCAGCGCGGTGCAGCCCGTTTCGCTCACACAAAGCCCAGACGC
GGAGAAAATGGCGGCAGGGGTCTGAAGCGGCGGCGGAGGTGGCGGCGACGGAGATCAAAATGGAGGAAGAGAGCGG
CGCGCCCGGCGTGCCGAGCGGCAACGGGGCTCCGGGGCCCTAAGGGTGAAGGAGAACGACCTGCTCAGAATGAGAA
GAGGAAGGAGAAAAACATAAAAAGAGGAGGCAATCGCTTTGAGCCATATGCCAATCCAATAAAAGATACAGAGC
CTTCATTACAAACATAACCTTTTGTATGTGAAATGGCAGTCACTTAAAGACCTGGTTAAAGAAAAAGTTGGTGAGGT
AACATACGTGGAGCTCTTAATGGACGCTGAAGGAAAGTCAAGGCTCTATAGTGTGTTGAATTCAAGATGGAAGA
GAGCATGAAAAAAGCTGCGGAAGTCTTAAACAAGCATAGTCTGAGCGGAAGACCACTGAAAGTCAAAGAAGATCC
TGATGGTGAACATGCCAGGAGAGCAATGCAAAAGGCTGGAAGACTTGGAAGCACAGTATTTGTAGCAAATCTGGA
TTATAAAGTTGGCTGGAAGAACTGAAGGAAGTATTTAGTATGGCTGGTGTGGTGGTCCGAGCAGACATTCTTGA
AGATAAAGATGSAAGAAAGTCTGGAATAGGCAGTGTACTTTTGAACAGTCCATTGAAGCTGTGCAAGCTATATC
TATGTTCAATGGCCAGCTGCTATTTGATAGACCAATGCACGTCAAGATGGATGAGAGGGCCCTTACCAAAGGAGA
TTTCTTCCCTCCTGAGCGTCCACAACAACCTTCCCCATGGCCTTGGTGGTATTGGCATGGGGTTAGGACCAGGAGG
GCAACCCATTGATGCCAATCACCTGAATAAAGGCATCGGAATGGGAAAACATAGGTCCCGCAGGAATGGGAATGGA
AGGCATAGGATTTGGAATAAATAAAATGGGAGGAATGGAGGGGCCCTTTGGTGGTGGTATGGAACATGGGTGCG
ATTTGGATCTGGGATGAACATGGGCAGGATAAATGAAATCCTAAGTAATGCACTGAAGAGAGGAGAGATCATTGC
AAAGCAGGGAGGAGGTGGAGGTGGAGGAAGCGTCCCTGGGATCGAGAGGATGGGTCCCTGGCATTGACCGCCTCGG
GGGTGCCGGCATGGAGCGCATGGGCGCGGGCCTGGGCCACGGCATGGATCGCGTGGGCTCCGAGATCGAGCGCAT
GGGCCTGGTTCATGGACCGCATGGGCTCCGTGGAGCGCATGGGCTCCGGCATTGAGCGCATGGGCCCCGCTGGGCCT
CGACCACATGGCCTCCAGCATTGAGCGCATGGGCCAGACCATGGAGCGCATTGGCTCTGGCGTGGAGCGCATGGG
TGCCGGCATGGGCTTCGGCCTTGAGCGCATGGCCGCTCCCATCGACCGTGTGGGCCAGACCATTGAGCGCATGGG
CTCTGGCGTGGAGCGCATGGGCCCTGCCATCGAGCGCATGGGCCTGAGCATGGAGCGCATGGTGCCCGCAGGTAT
GGGAGCTGGCCTGGAGCGCATGGGCCCGTGTATGGATCGCATGGCCACCGGCCTGGAGCGCATGGGCGCCAACAA
TCTGGAGCGGATGGGCCTGGAGCGCATGGGCGCCAACAGCCTCGAGCGCATGGGCCTGGAGCGCATGGGTGCCAA
CAGCCTCGAGCGCATGGGCCCGCCATGGGCCCGGCCCTGGGCGCTGGCATTGAGCGCATGGCCTGGCCATGGG
TGGCGGTGGCGGTGCCAGCTTTGACCGTGCCATCGAGATGGAGCGTGGCAACTTCGGAGGAAGCTTCGCAGGTTT
CTTTGGTGGAGCTGGAGGCCATGCTCCTGGGGTGGCCAGGAAGGCCTGCCAGATATTTGTGAGAAATCTGCCATT
CGATTTACATGGAAGATGCTAAAGGACAAATTCAACGAGTGCGGCCACGTGCTGTACGCCGACATCAAGATGGA
GAATGGGAAGTCCAAGGGGTGTGGTGTGGTTAAGTTTCGAGTCGCCAGAGGTGGCCGAGAGAGCCTGCCGGATGAT
GAATGGCATGAAGCTGAGTGGCCGAGAGATTGACGTTTGAATTGATAGAAACGCTTAAGCAGTTGCCTTTTTTAA
ACATCGATACGAGACCTCTGAATTTGTATTTTTCTTGTAAACCATTTTAATTTGTTGGCTGGATGTATAAAGAT
GTTTAAAAAATTCAGTTGCTTTTTGGGGTAATTTGAATTACTTTTTTAATGACTGGGGTTCCATTTGACTGTTTG
CATTGAGATTGCAATGTGCGCAATTTTTTTTGTAGTTGTGGCATCTTGTGACATCGAATATGACTTTGATAATA
AATACCGGTTCCCTG

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FIGURE 5227A

AGTGAAGCGGAAGCCATTACTCTCTGGAGTCGATTGCCCCGAGACACATGGGCCAAGGAGGGGTCAGCGGCGAAT
TCTTTCGGCCTGTTGGGGACCCCTCGTGTCCCCACGCCAGACTGGACCTCCCGTATGAACCTTCTCTTCGCATCGG
CGGCGGCTTCCGTACCTCCGCTCCCCGATCCTATTCCAGTCGTATGCCAGCTTGGAGAGTCACGTGAGAGCA
AGAGAGTAGCTTTCTGGTTGTCCTGGTGCCCTGCTCAGGCAAACCTGACTGCCATTCTCTGAGGATGCGCAGCTCTG
TCCCCACATTTGCCACGTCCACCCAGGATTCCACCTGTCTCCAGGACTCAGAATTTCTGTTTTCTTCAAAGAC
CATTCCTGTCCCCAGAATTTGGACCTGTTCTGTGTGAGTGGTCTGGAGCCTCACACACCCAGTGTGGTTCCAG
GAATCGGTGACTTTCCAAGATGTCTGTGGACTTTACCGAGAAGGAGTGGCCCTTGCTGGATTCTTCTCAGAGA
AAACTGTACAAAGATGTAATGCTGGAGAACTACAGCAACCTCACTTCACTGGGGTATCAGGTCGGCAAACCCAGC
CTCATCTCACACTTGGAGCAGGAGGAGGAGCCGAGGACAGAGGAGAGGGGCGCTCACCAGGGCGCTTGTGCAGAT
TGGGAGACTCCATCTAAACCAAGTGGTCACTTCTTATGGAAGATATTTTGGGAAGGAAACGCCAGTGGTGTG
ACGATGGAAAGAGCCGGTCTTGGAGAGAAGTCCACTGAATACGCTCACTTGTTCGAAGTCTTTGGCATGGACCT
CATCTCACTCAGCCAATGGGAAGGCACGCTGGCAAGAGGCCCTATCACCGCCGCGACTATGGGGTAGCGTTCAAG
GGCAGGCCGCACCTCACTCAGCACATGAGCATGTACGACGGGAGAAAAATGCATGAATGTATCAGTGCCAAAAA
GCCTTACCACGAGCGCGTCCCTCACACGGCACAGGAGAATCCACACCGGGGAGAAGCCTTACGAGTGCAGCGAC
TGCGGGAAAGCCTTCAACGACCCTTCAGCCCTTAGGAGCCACGCAAGAACTCACCTCAAAGAGAAGCCCTTTGAC
TGCAGTCAGTGTGAAATGCATTCCGGACCCTCTCGGCCCTGAAAATCCACATGCGAGTTCACACTGGCGAGAGG
CCTTACAAGTGTGATCAGTGCGGGAAGGCTTACGGCCGGAGCTGCCACCTCATCGCACACAAGAGAACGCACACC
GGAGAGAGGCCCTACGAGTGTACGACTGTGGGAAAGCTTCCAGCACCCCTCCACCTCAAAGAGCACGTGAGG
AATCACACGGGGGAGAAGCCCTACGCGTGCACGCAGTGCGGCAAAGCCTTCCGCTGGAAGTCCAACCTTTAATTTG
CACAAGAAGAACCACATGGTGGAGAAGACCTACGAATGTAAAGAATGCGGGAAATCCTTTGGCGATCTCGTGTCC
CGGAGGAAACACATGAGGATTCACATCGTCAAGAAAACCCGTGGAATGTCGGCAGTGCGGGAAGACCTTCCGAAAC
CAGTCCATCCTTAAGACTCACATGAACCTCTCACACTGGAGAGAAACCATACGGGTGCGATCTCTGCGGGAAAGCT
TTCAGCGCGAGTTCAAACCTCACCGCACACAGGAAGATACACACGCAAGAGAGACGCTACGAATGCGCCGCCCTGC
GGGAAAGTCTTCGGTGACTATTTATCCCGCGGAGGCACATGAGCGTTACCTTGTAAGAAACGAGTTGAGTGT
AGGCAGTGTGGCAAGGCCTTCAGGAACAGTCAACGCTGAAGACGCACATGCGAAGCCACACGGGGGAGAAACCG
TACGAATGCGATCACTGTGGGAAGGCCTTCAGCATAGGCTCCAACCTGAATGTGCACAGGCGGATCCACACCGGG
GAGAAGCCCTACGAATGCCTTGTCTGCGGGAAAGCCTTCAGCGACCACTCATCCCTCAGGAGCCACGTGAAAAC
CACCAGGGGAGAGAAGCTCTTTGTGTATCCGTGTGGAAAAGGCTCCAGTGAAGCGCGCTGCTTTAGAGACACAGG
ATGATTACAGACCGGAAACAGACCTCGTGGGTGTAAGAGGAAGCCTCTGTGAGCTCGCACCTTACTGGGTGCAAAA
GAATCCACGGAACCTTGGGAGAAGTCCAGTTCCTGTAAAACTGGGAAGACGAGGCGTTCTCATCCCATAGGAGGT
TTGTGAGAAGTACGCGCGGGGGTGAAAATGTACGTCTGTAGCATGGAGAAGCCTTCAGGGTACATTACAGCTCTTA
ACAAACACAGGAGGACTTAATGGCAGCTTGGCATTAAATGTCAAAATCCAAGCCGTGGCATTAAATGTCAAAATG
ACTTCAGACCACTTCTAGCCTTCTGGGCCCATGAGTAATAATGAGCACACTAGGGAGCATCTCTGTAAACACAGT
GGCTGGGGAAACCCCTTCCTAGTCTCACTTGATTCTCATGACGGAATCACACTAAAGAGAGAAATCAGTGAAAT
AAGGAACGTGGAAGGTATGAATGGGCCGCAAACACGCGCCAGCTGCTTGTCTTTGTATGGCTTGCCAGCTAACA
ATAGTGGTTCCATCTTTAAGGAAGAAGAATGTTTGATGGAGAAAATTTGTGGCCAATGAAGTCTGAAATACTTCC
TGTCATCTGCCCCCTTTCCAGAAAACTTGGCCGACCCCTGGTCTACAGCACGGGTCTCAGTCGGGCGACGATTT
GGCTGTCTAGGCGTCATTTGGCAATGTCTAGAGACATTTTGGTAGTTAGAATGGGGGGAAGATACTCCTGACTT
GTAATAAGAAGACATCAGAGATGCTGCTAAGTCGGCTCCAGCACACAGGAGCCCCCACAACGAAGAGTTAGTGC
CCCCAAACGTCACTGTTGCTGAGGTTGAAAATAATCATGCAGTCATTCTCAATTACTGCCTGCAGCAATTCCTC
CATTTTTATGAATCTTGTGAGCACTTACGCTAGGAGAAAATTTCTTTTACAAAACCTTTTAAATAACAATTAGTGCT
GATAATTCCTATGTGGAATGATTCCAGCCATGGTCCCCCTCACTTGAGCATGTGAATATTCTCACGGAGAGAAGC
CCCAGCGAGATTTTCCGGTGAATACGGGATTGCACTTACTCTTTCATCACGGAACAGACCCCCCGAGAGAAGCC
CCAACGAGATTTTCCGGTGAATACGGGACTGCACGTACTCTCTCATCATGAAAACAGAGCCCCGTTCAATAATTT
TTCATCTTTATTTTAAAGGTTATACTCCTCTAAATAACCCCTTAAGCCTCATCAAGAAAGGTTTGTATTATAGTATT
TTTACTATAGCTTCATCCTTGATAACGTCCCTAATTTCTTCTGGACAACCTCCTTGACCAATGGCATATTGAGAT
CTATGTGACATGAGGATATTTCTCAGTACCCTTTGTTACTGGTACCTGATGCACACGGATTGCGACCAGAGCAT
GATGCCTCCATCAAGTGGAATATGTTTGACGCTGTGTCCAGCCAAGAGTGACAGATACTTCTAGTGACTTCC

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FIGURE 5227B

CCGGTATCCACTCTCATCTTCTTCCAATATCAAGAGAATCCAGGTTCTGTCAGATTAGTAAGGTGTGCTAATCTA
AATTTTAAAAAATCTCTTACAGGTTTTCTTGCAGCTGGTACCATCCATGTCTCACAGCCCTGGCCACTGACAGAT
CAGCAGATGTCACCACATGGGCTTCTGAGAAAGCTCTTGAATGGGGATCGTTCTTAAACATGAATTCCCTCCCTGT
ATGTTTTGTTCTTTGCTTTACTTTTACCTTGCAAAGAGATCCAGTACCTAGTATTGGAAGATCCACCTTAACGA
CCGTGCATATGAAAACCACAGTCTAAGGAAGTGACTGCAGAAAGCTCACAGCGACCCTGGCCTCCCCTGTGGCCT
CTTTGAGTGTCTGCAGCAGCCCTGGACTTCCAGACTTCTATCACATGAGAAAAAATAAACTGATTATTGGTTTA
AGCTGC

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FIGURE 5228

MAALSPTFATSTQDSTCLQDSEFPVSSKDHSCPQNLDLFVCSGLEPHTPSVGSQESVTFQDVAVDFTEKEWPLLD
SSQRKLYKDVMLENYSNLTS LGYQVGKPSLISHLEQEEEP RTEERGAHQGACADWETPSKTKWSLLMEDIFGKET
PSGVTMERAGLGEKSTEYAHLEFVFGMDPHLTQPMGRHAGKRPYHRRDYGVAFKGRPHLTQHMSMYDGRKMHECH
QCQKAFTTSASLTRHRRRIHTGEKPYECSDCGKAFNDPSALRSHARTHLKEKPFDCSQCGNAFRTLSALKIHMRVH
TGERPYKCDQCGKAYGRSCHLIAHKRTHHTGERPYECHDCGKAFQHP SHLKEHVRNHTGEKPYACTQCGKA FRWKS
NFNLHKKNHMVEKTYECKECGKSFGDLVSRKHMRIHIVKKPVECRQCGKTFRNQSILKTHMNSHTGEKPYGCDL
CGKAFSASSNLTAHRKIHTQERRYECAACGKVFGDYLSRRRHMSVHLVKKRVECRQCGKA FRNQSTL KTHMRSHT
GEKPYECDHCGKA FSIGSNLNVHRRRIHTGEKPYECLVCGKA FSDHSSLRSHVKT HRGEKLFVSSVWKRLQ

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FIGURE 5229

GTGTGCAATGGCTGCACACAGCAGCTTCCTTGGTAGTGTACGCAGCCTGTTGGTTGTATGGGTTGCTCTAAGGGA
CCTTGGAGACAGGCCCTTCCGATGGATGTTTCATGTTTCTAACCTTGCACTACCACAATGTAGGCTCCAAACAGGC
ATGTGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTGACATTGGCCAAGTTATCATGTCCATCCGC
ACCAAGCTGCAGAACAAGGAGCATGCGATTGAGGCCTTGCGCAGGGCCAAGTTCAAGTTTCCTGGCCGCCAGAAG
ATCTACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTGAAGACATGGTGGCTGAGAAGCGG
CTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAATCGTGGCCCTCTGGACAAGTGGCTGGCCCTGCACTCA
TGAGGGCTTCCAATGTGCTGCCCCCCTATTAATACTACCAATAAATTCTACTTCCTGTCCAAAAAAAAAAAA

[illegible]

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FIGURE 5231

MWPLTVPPPLLLLLCSGLAGQTLFQNP EEGWQLYTSAQAPDGKCICTAVIPAQSTCSR DGRSREL RQLMEKVQNV
SQSMEVLELR TYRDLQYVRGMETLMRSLDARLRAADGSLSAKSFQELKDRMTELLPLSSVLEQYKADTRTIVRLR
EEVRNLSGSLAAIQEEMGAYGYEDLQQRVMALEARLHACAQKLGCGKLTGVSNPITVRAMGSRFGSWMTDTMAPS
ADSRVWYMDGYKGRRVLEFRTLGD FIKGNFIQHLLPQPWAGTGHVVYNGSLFY NKYQSNVVVKYHFRSRSVLV
QRS LPGA GYNNTFPY SWGGFSDMDFMVDESGLWAVYTTNQNAGNIVVSRLDPHTLEV MRSDTGYPKRSAGEAFM
ICGVLYVTNSHLAGAKVYFAYFTNTSSYEYTDVPFHNQYSHISMLDYNPRERALYTWNNGHQVLYNVTLFHVIST
SGDP

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FIGURE 5232

AGGAGGCCTCGTGGAGGACACAGCAGCAATGGGACAGTCAGGGAGGTCCCGGCACCAGAAGCGCGCCCGCGCCCAG
GCGCAGCTCCGCAACCTCGAGGCCTATGCCGCGAACCCGCACTCGTTTCGTGTTACGCGAGGCTGCACGGGTTCGC
AACATCCGGCAGCTCAGCCTGGACGTGCGGCGGGTTCATGGAGCCGCTCACTGCCAGCCGTCTGCAGGTTTCGTAAG
AAGAACTCGCTGAAGGACTGCGTGGCAGTGGCTGGGCCCCCTCGGGGTACACACTTTCTGATCCTGAGCAAAACA
GAGACCAATGTCTACTTTAAGCTGATGCGCCTCCCAGGAGGCCCCACCTTGACCTTCCAGGTGAAGAAGTACTCG
CTGGTGCGTGATGTGGTCTCCTCACTGCGCCGGCACCGCATGCACGAGCAGCAGTTTGCCACCCACCCCTCCTG
GTACTCAACAGCTTTGGCCCCCATGGTATGCATGTGAAGCTCATGGCCACCATGTTCCAGAACCTGTTCCCTCC
ATCAACGTGCACAAGGTGAACCTGAACACCATCAAGCGCTGCCTCCTCATCGACTACAACCCCGACTCCCAGGAG
CTGGACTTCCGCCACTATAGCATCAAAGTTGTTCTGTGGGCGCGAGTCGCGGGATGAAGAAGCTGCTCCAGGAG
AAGTTCCCCAACATGAGCCGCCTGCAGGACATCAGCGAGCTGCTGGCCACGGGCGCGGGGCTGTCCGAGAGCGAG
GCAGAGCCTGACGGCGACCACAACATCACAGAGCTGCCTCAGGCTGTCGCTGGCCGTGGCAACATGCGGGGCCAG
CAGAGTGCAGTGCGGCTCACCGAGATCGGCCCCGGGATGACACTGCAGCTCATCAAGGTCCAGGAGGGCGTCGGG
GAGGGCAAAGTGATGTTCCACAGTTTTGTGAGCAAGACGGAGGAGGAGCTGCAGGCCATCCTGGAAGCCAAGGAG
AAGAAGCTGCGGCTGAAGGCGCAGAGGCAGGCCAGGCCAGGAATGTGCAGCGCAAGCAGGAGCAGCGGGAG
GCCACAGAAAGAAGAGCCTGGAGGGCATGAAGAAGGCACGGGTGCGGGGTAGTGATGAAGAGGCCTCTGGGATC
CCTTCAAGGACGGCGAGCCTGGAGTTGGGTGAGGACGATGATGAACAGGAAGATGATGACATCGAGTATTTCTGC
CAGGCGGTGGGCGAGGCGCCAGTGAGGACCTGTTCCCCGAGGCCAAGCAGAAACGGCTTGCCAAGTCTCCAGGG
CGGAAGCGGAAGCGGTGGGAAATGGATCGAGGCAGGGGTGCGCTTTGTGACCAGAAGTTTCCCAAGACCAAGGAC
AAGTCCCAGGGAGCCAGGCCAGGCGGGGGCCAGAGGGGCTTCCCGGGATGGTGGGCGAGGCGGGGGCCGGGGC
CGCCAGGGAAGAGAGTGGCCTCGAGCCCCAAGCCGCACCGGAGCAGCGGCTGGATTGAACGCCCCAGATTGGGGCC
CGAGATGTGGCCCTCGGTTTCCTTTCATAAAGGAGTTGTGTCCCAGCCCTTCCACTCCAGTAAAGAACTGAATT
GGC

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FIGURE 5233

MGQSGRSRHHQKRARAQAQLRNLEAYAANPHSFVFTRGCTGRNIRQLSLDVRRVMEPLTASRLQVRKKNSLKDCVA
VAGPLGVTHFLILSKTETNVYFKLMRLPGGPTLTFFQVKKYSLV RDVVSSLRRHRMHEQQFAHPPLVLNSFGPHG
MHVKLMATMFQNLFP SINVKVNLNTIKRCLLIDYNPDSQELDFRHYSIKVVPVGASRGMKKLLQEKFPNMSRLQ
DISELLATGAGLSESEAE PDGDHNI TELPQAVAGRGNMRAQQSAVRLTEIGPRMTLQLIKVQEGVGEGKVMFHSF
VSKTEELQAILEAKEKKLRLKAQRQAQQAQNVQRKQEQREAHKKSLGEMKKARVGGSDDEEASGIPSRTASLEL
GEDDDEQEDDDIEYFCQAVGEAPSEDLFPEAKQKRLAKSPGRKRKRWEMDRGRGRLCDQKFPKTKDKSQGAQARR
GPRGASRDGGRGRGRGRPGKRVA

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FIGURE 5234

CTTTTTGCGATGCCTACTGGGGACTTTGATTCTGAAGCCAGTTGGGCCGACCAGGTGGAGGAGGAGGGGGAGGAC
GACAAATGTGTACCAGCGAGCTCCTCAAGGGGATCCCTCTGGCCACAGGTGACACCAGCCCAGAGCCAGAGCTA
CTGCCGGGAGCTCCACTGCCGCCTCCCAAGGAGGTCATCAACGGAAACATAAAGACAGTGACAGAGTACAAGATA
GATGAGGATGGCAAGAAGTTCAAGATTGTCCGCACCTTCAGGATTGAGACCCGGAAGGCTTCAAAGGCTGTCGCA
AGGAGGAAGAAGTGAAGAAGTTCGGGAAGTCTCAGAGTTTGACCCCCCGGACCCAATGTGGCCACCACCCTGTC
AGTGACGATGTCTCTATGACGTTTCATCACCAGCAAAGAGGACCTGAACTGCCAGGAGGAGGAGGACCCTATGAAC
AAACTCAAGGGCCAGAAGATCGTGTCTGCGCATCTGCAAGGGCGACCACTGGACCACCCGCTGCCCCCTACAAG
GATACGCTGGGGCCCATGCAGAAGGAGCTGGCCGAGCAGCTGGGCCTGTCTACTGGCGAGAAGGAGAAGCTGCCG
GGAGAGCTAGAGCCGGTGCAGGCCACGCAGAACAAGACAGGGAAGTATGTGCCGCCGAGCCTGCGCGACGGGGCC
AGCCGCCGCGGGGAGTCCATGCAGCCCAACCGCAGAGCCGACGACAACGCCACCATCCGTGTCACCAACTTGTCA
GAGGACACGCGTGAGACCGACCTGCAGGAGCTCTTCGGCCTTTTCGGCTCCATCTCCCGCATCTACCTGGCTAAG
GACAAGACCACTGGCCAATCCAAGGGCTTCGCCTTCATCAGCTTCCACCGCCGCGAGGATCGTGCGCGTGCCATT
GCCGGGTGTCCGGCTTTGGCTACGACCACCTCATCCTCAACGTCGAGTGGGCCAAGCCGTCCACCAACTTAAGCC
AGCTGCCACCGTGTA

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FIGURE 5235

MPTGDFDSKPSWADQVEEEGEDDKCVTSELLKGIPLATGDTSPPELLPGAPLPPPKEVINGNIKTVTEYKIDED
GKKFKIVRTFRIETRKASKAVARRKNWKKFGNSEFDPPGPNVATTTVSDDVSMTFITSKEDLNCQEEEDPMNKLK
GQKIVSCRICKGDHWTTRCPYKDTLGPMQKELAEQLGLSTGEKEKLPGELEPVQATQNKTGKYVPPSLRDGASRR
GESMQPNRRADDNATIRVTNLS EDTRETDLQELFRPFGSISRIYLA KDKT TGQSKGFAFISFHRREDRARA IAGV
SGFGYDHLILNVEWAKPSTN

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FIGURE 5236

TGTGAGGTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGGTTAGTCCTG
GGGTGGAGGTCTGGGCACGCCGGGTCGGACCCCCCTCCATCTTCGGTTTTTGACACCCCCGCTTTCCAGCGCGGAGT
CGCGGCGGGTAGGGCGGCGTCGCGTGCGTGACGTATCCAGCGGCGCCTCGCGAGGCTCCAGTGGCCTTGACCTC
CCGCGGCGTGGGAGGCTGCGCGGCGATGCTGCAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTCTGA
CAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCAGCGCGTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGGG
TCTCCCGGAGCCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTCTGA
GTCTTTGCGGGGCTTCGAGCAGGAGCGCGTGGGCCTGGCCGACCTGCACCCCGATGTTTTCGCCACCGCGCCCAG
GCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGAG
AGCCGAGGTGCGGGGCGGTGGCCGGAAGCCTTGCCCGCAGAAAGGCACTGGGCGGGCCCGGCATGGCAGCATCCG
CTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCGGGGCCCCACAAGTTACTACTACATGCTGCCCAT
GAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACTC
CCTAGAGCTGCCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTACT
CCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACTT
GATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCTGACGCTGCCCACCGTCGC
CTTCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCGA
CTTCCCCGACCCCTACCCACGCTACCCAGGGCCCAGCGGCCACCCCGTACCACTGTTGATGTGAAGCACCTCT
TCTGAGCCAGGCCGAGCCCCTGGCCGACTTGGGAGCCTCAGGCCCACGCCCACCCTTTCGAGGAAGGTGTCACCTG
GACCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGGA
AAGCCCAGACGGGCTTCTGCATCCATTCCCTCTTTTTGTTTTTAAATAAATTGTATTTTTG

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FIGURE 5237

GGCACGAGGCCCGCCACCCGAGCCGGAGCGGGCTGGGCCGCCAAGGCAAGATGGTGGACTACAGCGTGTGGGACCA
CATTGAGGTGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAGTCTCTTCCGCTGGCGGCATCA
GGCCCCGGGTGGAACGCATGGAGCAGTTCCAGAAGGAGAAGGAGGAAGTGGACAGGGGCTGCCGCGAGTGCAAGCG
CAAGGTGGCCGAGTGCCAGAGGAACTGAAGGAGCTGGAGGTGGCCGAGGGCGGCAAGGCAGAGCTGGAGCGCCT
GCAGGCCGAGGCACAGCAGCTGCGCAAGGAGGAGCGGAGCTGGGAGCAGAAGCTGGAGGAGATGCGCAAGAAGGA
GAAGAGCATGCCCTGGAACGTGGACACGCTCAGCAAAGACGGCTTCAGCAAGAGCATGGTAAATACCAAGCCCGA
GAAGACGGAGGAGGACTCAGAGGAGGTGAGGGAGCAGAAACACAAGACCTTCGTGGAAAAATACGAGAAACAGAT
CAAGCACTTTGGCATGCTTCGCCGCTGGGATGACAGCCAAAAGTACCTGTCAGACAACGTCCACCTGGTGTGCGA
GGAGACAGCCAATTACCTGGTCATTTGGTGCATTGACCTAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGT
GGCCCACCAGACAATCGTCATGCAATTTATCCTGGAGCTGGCCAAGAGCCTAAAGGTGGACCCCCGGGCCTGCTT
CCGGCAGTTCTTCACTAAGATTAAGACAGCCGATCGCCAGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTT
CAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCGAGAAGGCCATGAAGGAGTACGAGGAGGAGGAGCGCAA
GAAGCGGCTCGGCCCCGGCGGCCTGGACCCCGTCGAGGTCTACGAGTCCCTCCCTGAGGAACTCCAGAAGTGCTT
CGATGTGAAGGACGTGCAGATGCTGCAGGACGCCATCAGCAAGATGGACCCACCGACGCAAAGTACCACATGCA
GCGCTGCATTGACTCTGGCCTCTGGGTCCCCAACTCTAAGGCCAGCGAGGCCAAGGAGGGAGAGGAGGCAGGTCC
TGGGGACCCATTACTGGAAGCTGTTCCCAAGACGGGCGATGAGAAGGATGTCAGTGTGTGACCTGCCCCAGCTAC
CACCGCCACCTGCTTCCAGGCCCTATGTGCCCTTTTTCAGAAAACAGATAGATGCCATCTCGCCCGCTCCTGAC
TTCTCTACTTGCCTGCTCGGCCAGCCTGGGGGGCCCGCCAGCCCTCCCTGGCCTCTCCACTGTCTCCACTC
TCCAGCGCCCATTCAGTCTCTGCTTTGAGTCAAGGGGCTTCACTGCCTGCAGCCCCCATCAGCATTATGCCAA
AGGCCCCGGGGTCCGGGGAAGGGCAGAGGTACCAGGCTGGTCTACCAGGTAGTTGGGGAGGGTCCCCAGCCAAG
GGGCCGGCTCTCGTCACTGGGCTCTGTTTTCACTGTTTCTGCTGTCTGTGTCTTCTATTGGCAAACAGCAAT
GATCTTCCAATAAAAAGATTTCAGATGCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5238

MVDYSVWDHIEVSDDDEDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRGCRECKRKVAECQRKLKELEVAE
GGKAELERLQAEAAQQLRKEERSWEQKLEEMRKKEKSMPWNVDTLSDGFSKSMVNTKPEKTEEDSEEVREQKHKT
FVEKYEQIKHFGMLRRWDDSQKYLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQTIVMQFILELAKS
LKVDPRACFRQFFTKIKTADRQYMEGFNDELEAFKERVGRAKLRIEKAMKEYEEEEERKKRLGPGGLDPVEVYES
LPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCIDSGLWVPNSKASEAKEGEEAGPGDPLLEAVPKTGDEKD
VSV

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FIGURE 5239

CGCGCAGCGATGGAGGCGCCGGGGCTCGGGCGGTGGAGGCGGAGCCGGAGCGCGGCCATGGCGGGGTCCCTGAGT
GCCAGAGGTGGTGGTGTGCTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCCTAGCGGGGCTGGGGCCTG
CTGCCGATTCTGCCCTGCAGTCACAGTGCCCTGAGGGGGCAGGGGACGCGGTGATGTACGCCTCCACTGAGTG
CAAGGCGGAGGTGACGCCCTCCAGCATGGCAACCGCACCTTCAGCTACACCCTGGAGGATCATACCAAGCAGGC
CTTTGGCATCATGAACGAGCTGCGGCTCAGCCAGCAGCTGTGTGACGTCACTGCAGGTCAAGTACCAGGATGC
ACCGGCCGCCCAGTTTCATGGCCCAAGGTGGTGTGCTGGCCTCATCCAGCCCTGTCTTCAAGGCCATGTTACCAA
CGGGCTGCGGGAGCAGGGCATGGAGGTGGTGTCCATTGAGGGTATCCACCCCAAGGTCATGGAGCGCCTCATTGA
ATTGCGCTACACGGCCTCCATCTCCATGGGCGAGAAGTGTGTCTCCACGTCATGAACGGTGCTGTATGTACCA
GATCGACAGCGTTGTCCGTGCCGTGCAGTGACTTCTGGTGCAGCAGCTGGACCCAGCAATGCCATCGGCATCGC
CAACTTCGCTGAGCAGATTGGCTGTGTGGAGTTGCACCAGCGTGCCCGGGAGTACATCTACATGCATTTTGGGGA
GGTGGCCAAGCAAGAGGAGTTCTTCAACCTGTCCACTGCCAACTGGTGACCCTCATCAGCCGGGACGACCTGAA
CGTGCGCTGCGAGTCCGAGGTCTTCCACGCCTGCATCAACTGGGTCAAGTACGACTGCGAACAGCGACGTTCTA
CGTCCAGGCGCTGCTGCGGGCCGTGCGCTGCCACTCGTTGACGCCGAACCTTCTGAGATGCAGCTGCAGAAGTG
CGAGATCCTGCAGTCCGACTCCCGCTGCAAGGACTACCTGGTCAAGATCTTCGAGGAGCTCACCTGCACAAGCC
CACGCAGGTGATGCCCTGCCGGGCGCCCAAGGTGGGCGCCTGATCTACACCGCGGGCGGCTACTTCCGACAGTC
GCTCAGCTACCTGGAGGCTTACAACCCAGTGACGGCACCTGGCTCCGGTTGGCGGACCTGCAGGTGCCGCGGAG
CGGCTGGCCGGCTGCGTGGTGGGCGGGCTGTTGTACGCCGTGGGCGGCAGGAACAACCTGCCCCGACGGCAACAC
CGACTCCAGCGCCCTGGACTGTTACAACCCCATGACCAATCAGTGGTCCGCTGCGCCCTGCGCCCCCATGAGCGTGCCCCG
TAACGCATCGGGGTGGGGGTTCATCGATGGCCACATCTATGCCGTGCGCGGCTCCCACGGCTGCATCCACCACAA
CAGTGTGGAGAGGTATGAGCCAGAGCGGGATGAGTGGCACTTGGTGGCCCCAATGCTGACACGAAGGATCGGGGT
GGGCGTGGCTGTCTTCAATCGTCTCCTTTATGCCGTGGGGGGCTTTGACGGGACAAACCGCCTTAATTCAGCTGA
GTGTTACTACCCAGAGAGGAACGAGTGGCGAATGATCACAGCAATGAACACCATCCGAAGCGGGGAGGCGTCTG
CGTCTGCACAACCTGTATCTATGCTGCTGGGGGCTATGATGGTCAAGGACAGCTGAACAGCGTGGAGCGCTACGA
TGTGGAAACAGAGACGTGGACTTTCGTAGCCCCCATGAAGCACCGGCGAAGTGCCCTGGGGATCACTGTCCACCA
GGGGAGAATCTACGTCTTGGAGGCTATGATGGTCACACGTTCTTGGACAGTGTGGAGTGTACGACCCAGATAC
AGACACCTGGAGCGAGGTGACCCGAATGACATCGGGCCGGAGTGGGGTGGGCGTGGCTGTACCATGGAGCCCTG
CCGGAAGCAGATTGACCAGCAGAACTGTACCTGTTGAGGCACTTTTGTCTTGGGGCAAAAATACAGTCCAATGG
GGAGTATCATTGTTTTTGTACAAAAACCGGGACTAAAAGAAAAGACAGCACTGCAAATAACCCATCTTCCGGGAA
GGGAGGCCAGGATGCCTCAGTGTTAAAATGACATCTCAAAGAAGTCCAAAGCGGGAATCATGTGCCCTTCAGCG
GAGCCCCGGGAGTGTCCAAGACAGCCTGGCTGGGAAAGGGGTGTGGAAAGAGCAGGCTTCCAGGAGAGAGGCC
CCAAACCTCTGGCCGGGTAATAGGCCTGGGTCCCACTCACCCATGCCGGCAGCTGTACCATGTGATTTATTCT
TGGATACCTGGGAGGGGGCCAATGGGGGCTCAGGGGGAGGCCCTCTGGAAATGTGGTTCCAGGGATGGGCC
TGTACATAGAAGCCACCGGATGGCACTTCCCCACCGATGGACAGTTATTTTGTGATAAGTAACCCCTGTAATTT
TCCAAGGAAAATAAAGAACAGACTAACTAGTGTCTTTC

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FIGURE 5240

TTTTACAAAACGCTCTCCTTGTTGAAGAAGAAGGACCCCCGCATTTATCAGAAAGATGCCACCTTCTATAACAGA
ACAGCATCGTCATCAGACAGTGAGGAGGACCCAGAAGCCTTGGAGAAGCAGAAGAAAGTGCGGCCCCATGTACCTG
AAGGACTACGAGAGGAAGGTTATCTTGGAGAAGGCAGGCAAATATGTTGATGAGGAGAACTCAGACGGGGAGACT
TCCAATCACAGACTCCAGGAGACATCGTCGCAAAGTTATGTGGAGGAACAGAAACAGCTCAAGGAAAGCTTCCGG
GCATTTGTGGAGGACAGTGAGGACGAGGACGGCGCTGGGGAGGGCGGCTCCAGTTTGTCTGCAGAAACGTGCCAAA
ACCAGGCAGGAGAAGGCCCAGGAGGAGGCCGACTACATCGAGTGCGTGAAGGGACAGAAAGAGATTTCGGAACCCA
GATTCCCTGAAGGAACTGACGCATCTCAAGGAATACTGGAACGACCCTGAGTTGGATGAAGGGGAGCGGTTCCCTG
CGGGATTACATCCTCAACAAAACGCTATGAGGAGGAGGAAGAGGAGGAGGAAGATGAAGAGGAAATGGAGGAAGAG
GAGGGGGTCCACGGTCCCCCAGTCCAGCTGGCTGTGGACGACTCCTCAGACGAAGGGGAGCTGTTTCTGAAGAAA
CAGGAGGACTTTGAACAGAAGTACAATTTCCGTTTCGAGGAGCCGGACTCAGCATCGGTCAAGACCTACCCACGC
AGCATCGCGTCCCTCCGTGCGCCGTAAGGATGAGCGCAGAAAGGAGAAGAGGGAAGAGACTCGGGAGCGAAAAGAG
AGGGAGAAAGCAAAGAAGCAGGAAGAGCTCAAGCAGCTGAAGAACCTGAAGAGGAAGGAGATTCTGGCCAAGCTG
GAGAAGCTGCGGAAAGTAACAGGCAACGAGATGCTGGGCCTCGAGGAGGGGGACCTTGAAGACGACTTCGACCCCT
GCCCAGCACGACCAGCTCATGCAGAAGTGCTTTGGGGACGAGTACTACGGGGCCGTGGAGGAGGAGAAGCCACAA
TTTGAGGAAGAAGAAGGGCTTGAAGACGACTGGAACCTGGGACACGTGGGACGGGCCTGAGCAGGAGGGAGACTGG
AGCCAGCAGGAGCTGCACTGTGAGGACCCCAACTTCAACATGGACGCCGACTACGACCCCAGCCAGCCGAGGAAG
AAAAAGCGCGAGGCCCCCTTGACGGGCAAGAAGAAGCGCAAGTCGCCCTTCGCCGCGGCCGTGGGGCAGGAGAAG
CCCGTGTTTGAACCCGGGGACAAGACGTTTCGAGGAGTACCTGGATGAGTATTACCGGCTGGACTACGAGGACATC
ATCGACGACCTGCCCTGTGCTTCAAGTACCGCACAGTGGTGCCCTGTGACTTTGGCCTCAGCACTGAGGAGATC
CTCGCTGCTGACGATAAGGAGCTGAACCGGTGGTGCTCCCTAAAGAAGACCTGCATGTACAGGTGAGAGCAGGAG
GAGCTGCGGGACAAGCGGGCGTACAGCCAGAAGGCCCAGAACTCATGGAAAAAGCGGCAGGTCTTCAAGTCACTC
TGCCGAGAAGAGGCAGAGACACCTGCGGAAGCCACAGGGAAAGCCACAGAGAGATGAAGCCGGCCACAGAGGCAG
CTGCCAGCCCTTGATGGCAGCTTGATGGGGCCGGAGAGTCCCCCAGCACAGGAAGAGGAAGCCCCTGTATCACCC
CACAAGAAGCCAGCCCCCAGAAGCGGAGGAGGGCCAAGAAGGCACGGCTGCTGGGGCCCCACTGTGATGCTTGGT
GGATGCGAGTTTCAGCCGCCAGAGACTGCAGGCCTTTGGCCTCAACCCCAAACGGCTGCACTTCCGCCAGCTGGGC
CGGCAGCGGAGGAAACAACAGGGGCCCAAGAACAGCTCCTGAGCACCAGGGAGCAGGCAGGGGCCTCAGGCTCCT
CTCCTCAAATCAAGCCCTGGACAGGTCTCGCACCCACAAGTACTATCTGCTGCAGAGATCCTCTCATCTGTGGCC
AGGCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGGTGAAAGGATCACTTGAGCCCAGGAATTGGAGACCAGC
GTGGGCAACTTAGCGAGACTCCATCTCTACAAAATGTGGTGACACATGCCTGTAGTCCCAGCTACTCAGGAGGCT
GGGGAAAGGAAGATCACTTAAGGCCATGAGTTTGAGGCTACAGAGAGCTATGATTGCACCACTGCACTCCAGCCTG
GGCAACAAAGCAAGACCCTGTCTCTTG

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FIGURE 5241

GGCGCTTCCGCAGGAAGAAGGAAGCGGCGCCGCGCATCGCCTCCCGGCGCTCCCTCCCCGACTCCTAAGTCCTTCG
GCCGCCACCA**ATGT**CCGCGCTCGGCTGTCTTCATTCTGGACGTTAAGGGCAAGCCATTGATCAGCCGCAACTACAAG
GGCGATGTGGCCATGAGCAAGATTGAGCACTTCATGCCTTTGCTGGTACAGCGGGAGGAGGAAGGCGCCCTGGCC
CCGCTGCTGAGCCACGGCCAGGTCCACTTCCTATGGATCAAACACAGCAACCTCTACTTGGTGGCCACCACATCG
AAGAATGCCAATGCCTCCCTGGTGTACTCCTTCCTGTATAAGACAATAGAGGTATTCTGCGAATACTTCAAGGAG
CTGGAGGAGGAGAGCATCCGGGACAACCTTTGTATCGTCTACGAGTTGCTGGACGAGCTCATGGACTTTGGCTTC
CCGAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGCAGAGCAACAAGCTGGAGACGGGCAAGTCA
CGGGTGCCACCCACTGTCACCAACGCTGTGTCTGGCGCTCCGAGGGTATCAAGTATAAGAAGAACGAGGTCTTC
ATTGATGTATAGAGTCTGTCAACCTGCTGGTCAATGCCAACGGCAGCGTCCTTCTGAGCGAAATCGTCGGTACC
ATCAAGCTCAAGGTGTTTCTGTGAGGAATGCCAGAGCTGCGGCTGGGCCTCAATGACCGCGTGCTCTTCGAGCTC
ACTGGCCCGCAGCAAGAACAAATCAGTAGAGCTGGAGGATGTAAAATTCCACCAGTGCGTGCGGCTCTCTCGCTTT
GACAACGACCGCACCATCTCCTTCATCCCGCTGATGGTGACTTTGAGCTCATGTATACCGCCTCAGCACCCAG
GTCAAGCCACTGATCTGGATTGAGTCTGTCAATTGAGAAGTTCTCCACAGCCGCGTGAGATCATGGTCAAGGCC
AAGGGGCAGTTTAAGAAACAGTCAGTGGCCAACGGTGTGGAGATATCTGTGCCTGTACCCAGCGATGCCGACTCC
CCCAGATTCAAGACCAGTGTGGGCAGCGCCAAGTATGTGCCGGAGAGAAAACGTCGTGATTTGGAGTATTAAGTCT
TTCCCGGGGGGCAAGGAGTACTTGATGCGAGCCCACTTTGGCCTCCCCAGTGTGAAAAAGGAAGAGGTGGAGGGC
CGGCCCCCATCGGGGTCAAGTTTGAGATCCCCTACTTCACCGTCTCTGGGATCCAGGTCCGATACATGAAGATC
ATTGAGAAAAGTGGTTACCAGGCCCTGCCCTGGGTTCGCTACATCACCAGAGTGGCGATTACCAACTTCGTACC
AGCT**TAGA**AGGGAGAAAGAGATGGGGGCTTGAACACGGGGCTTCCTTACAGCCCCGGATGCAGATTTTAGAGGGAGG
GCAGGTGCGGGCTGTGTGTGTCTGTGTGAGGGCAGGTCTGGACTTGGCAGTTTCTTGCTCCCAGCACCCGCCCC
TTCCTCACCTCTTCCTTATTCATAGGCTGGGAGAGAACTCTCTGCTTCCCTCGCCCTTGGAGCTTTCCCCATC
CCCCTGATTTTATATGAAGAAATAGAAGAGGGGCTTGAAGTCCCCCTCGCGAGTGCCTTCTTGCAATTACCTGCC
TTAGCGGGTGTGCGGGTCCCTCCTTCACAGCCGCTGAGCCAGAGGTCCCGCTGGCCCCCTCCTCTGAATTTTAG
GATGTCATTAAAAAGATGAATCTA

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FIGURE 5242

MSASAVFILDVKGKPLISRNYKGDVAMSKIEHFMPLLVQREEEGALAPLLSHGQVHFLWIKHSNLYLVATTSKNA
NASLVYSFLYKTIEVFCEYFKELEESIRDNFVIVYELLDELMDFGFPQTDSKILQEYITQQSNKLETGKSRVP
PTVTNAVSWRSEGIKYKKNEVFIDVIESVNLLVNANGSVLLSEIVGTIKLVFLSGMPELRLGLNDRVLFELTGR
SKNKSVELEDVKFHQCVRLSRFDNDRTISFIPPDGDFELMSYRLSTQVKPLIWIESVIEKFSHSRVEIMVKAKGQ
FKKQSVANGVEISVPVPSDADSPRFKTSVGS AKYVPERNVVIWSIKSFPGGKEYLMRAHFGLP SVEKEEVEGRPP
IGVKFEIPYFTVSGIQVRYMKIIEKSGYQALPWVRYITQSGDYQLRTS

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FIGURE 5243

ATGGGGGACGAGCGGCCCCACTACTACGGGAAACACGGAACGCCACAGAAGTATGATCCCACCTTTCAAAGGACCC
ATTTACAATAGGGGCTGCACGGATATCATATGCTGTGTGTTCTGCTCCTGGCCATTGTGGGCTACGTGGCTGTA
GGCATCATAGCCTGGACTCATGGAGACCCTCGAAAGGTGATCTACCCCACTGACAGCCGGGGCGAGTTCTGCGGG
CAGAAGGGCACAAAAACGAGAACAACCCTATCTGTTTTATTTCAACATTGTGAAATGTGCCAGCCCCCTGGTT
CTGCTGGAATTCCAATGTCCCACTCCCCAGATCTGCGTGGAAAAATGCCCCGACCGCTACCTCACGTACCTGAAT
GCTCGCAGCTCCCGGGACTTTGAGTACTATAAGCAGTTCTGTGTTCTGCTTCAAGAACAATAAAGGAGTGGCT
GAGGTGCTTCAAGATGGTGACTGCCCTGCTGTCTCATCCCCAGCAAAACCCTTGGCCCGGAGATGCTTCCCGCT
ATCCACGCCTACAAGGGTGTCTGATGGTGGGCAATGAGACGACCTATGAGGATGGGCATGGCTCCCGGAAAAAC
ATCACAGACCTGGTGGAGGGCGCCAAGAAAGCCAATGGAGTCCTAGAGGCGCGGCAACTCGCCATGCGCATATTT
GAAGATTACACCGTCTCTTGGTACTGGATTATCATAGGCCTGGTCATTGCCATGGCGATGAGCCTCCTGTTTCATC
ATCCTGCTTCGCTTCTTGGCTGGTATTATGGTCTGGGTGATGATCATCATGGTGATTCTGGTGTGGGCTACGGA
ATATTTCACTGCTACATGGAGTACTCCCGACTGCGTGGTGAGGCCGGCTCTGATGTCTCTTTGGTGGACCTCGGC
TTTCAGACGGATTTCGGGTGTACCTGCACTTACGGCAGACCTGGTTGGCCTTTATGATCATTCTGAGTATCCTT
GAAGTCATTATCATCTTGCTGCTCATCTTTCTCCGGAAGAGAATTCTCATCGGATTGCACTCATCAAAGAAGCC
AGCAGGGCTGTGGGATACGTCATGTGCTCCTTGCTCTACCCACTGGTCACCTTCTTCTGCTGTGCCTCTGCATC
GCCTACTGGGCCAGCACTGCTGTCTTCTGTCCACTTCCAACGAAGCGGTCTATAAGATCTTTGATGACAGCCCC
TGCCCATTTACTGCGAAAACCTGCAACCCAGAGACCTTCCCTCCTCCAATGAGTCCCGCCAATGCCCAATGCC
CGTTGCCAGTTCGCCTTCTACGGTGGTGAGTCGGGCTACCAACGGGGCCCTGCTGGGCCTGCAGATCTTCAATGCC
TTCATGTTCTTCTGTTGGCCAACTTCGTGCTGGCGCTGGGCCAGGTACGCTGGCCGGGGCCCTTGCCTCCTAC
TACTGGGCCCTGCGCAAGCCGGACGACCTGCCGGCCTTCCCGCTCTTCTCTGCCTTTGGCCGGGGCGCTCAGGTAC
CACACAGGCTCCCTGGCCTTTGGCGCGCTCATCCTGGCCATTGTGCAGATCATCCGTGTGATACTCGAGTACCTG
GATCAGCGGCTGAAAGCTGCAGAGAACAAGTTTGCCAAGTGCCTCATGACCTGTCTCAAATGCTGCTTCTGGTGC
CTGGAGAAGTTCATCAAATTCCTTAATAGGAATGCCTACATCATGATTGCCATCTACGGCACCATTCTGACACC
TCGGCCAGGAATGCCTTCTTCTGCTCATGAGAAACATCATCAGAGTGGCTGTCTGGATAAAGTTACTGACTTC
CTCTTCTGTTGGGCAAACTTCTGATCGTTGGTAGTGTGGGGATCCTGGCTTTCTTCTTCTTCACCCACCGTATC
AGGATCGTGCAGGATACAGCACCACCCCTCAATTATTACTGGGTTTCTATACTGACGGTGATCGTTGGCTCCTAC
TTGATTGCACACGGTTTCTTACGCGTCTATGGCATGTGTGTGGACACGCTGTTTCTTCTGCTTCTTGGAGGACCTG
GAGAGGAATGACGGCTCGGCCGAGAGGCCTTACTTCATGTCTTCCACCCTCAAGAACTCTTGAACAAGACCAAC
AAGAAGGCAGCGGAGTCCTGA

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FIGURE 5244

GACCGGGGGCGAGCGGGCGGGCGGGCAGGCGCGCGCCGGGGAGGTGCGGGAACACGTGACCGGCTGAAGCCCCGC
CCCCTTTGACGCCGCGTTGCGCCTCGACGCAGGCCCAACCCAAATGGGAGGGAGGGGCGAAAAAGAGATAAGGGGG
GGGCTGAGGGGGGTGGGCGTGAGTTGCACGTGGTGCAAGCGGGAGTGTTGCGTGCGTAGTCACGTGACTTCGGCA
CCTTTCCCTCCGCTTTCGATAGGTTGCTCCATCATGTGACAATGGCGAATTTGCGGGTTTCCTTCGCCATCTGAC
AACTTTTGGCGCCTTCCCTTTGCCGTACTGGGAGTCCCTCCATCACGTGACGAGGGCAGCTCTGGTTTTCGCTAA
GGCGTTTTTTGAGCGGCCATTACCACGTGATGCAAGGCAAGCGTCAGAGGCGGAGCCTCCCTACGGCTGCGACAT
TTTGCGCCTGCGCGGCCGCCATCTTACGCCCCTCGCCCTGAGTACGTTAGCGGAAATGGCTCCGAGAGGCTTTGA
CGCATGTGTACCTTTTTAGTGGCGGTATCTCGGCCGGGGATTTCGGGCTCCAGTGAGGGTGGCTATGCTCACCC
CATCTCCCTTGAGAGGCACAGAAGGTTAGAGATGTGTGCGAGGAACGGCCAGGTCCAGCGTCTCCTCGTTGCTGC
CCCTTGAGCCCCGGGACCGGCGCCAATGCGCGCCCCGGGTTCTTGGGTTCTTTTCGTCCCGCAGACCTGCCCTTGGTGT
GGCGTCCCTGGGCGGTAGCTTCCGAAGGCTGCAGCCGACCTGGTTCGGGGTCTCTAGCCCCGCTTCCCCTTCCCC
CATTGACAGATGGAGAACTGAGGCCCAGGCCAAAAAATATCTCACTAGAGGGCTCACCGCCATTTCTGGAAAA
ATTGGGGCTGGGACTCAACGGACGCTCGTCCAGCAGCAGCGCGGAGCTCCGAAGTAAAGGCGCCCGTGACCGAGT
GCTTTGTCTTACAAAGCGTGGTGTCTTGAATGCTTCCAGGCGCCTTATGAGGCCCCCGATGTACAATCTGTGCT
TAACTAAACCCCACTGTCTTCCAGGGTCAGGTTGGCCATCCGCAGGCGTAGTTGCTAGGAAGGTTTGACAGATGT
CCGCTGTGATTGAGACGTTCCAGGATTTGGAGCAAGAAGAGCAAGGAAGGCCAGGCGCGGTGGCTCACGTTT
GTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTGAGGAGTTCGAGACCAGCCTGGCCAGCATG
GTGAAACCCCGTCTCTACTAAAAATACAAAAGAAAATTAGCCGGGTGTGGTGGCACATGCCTGTAGTCCCACCTA
CTTGGGAGGCTGAGGCAGGAGAATTGTTTGACCTGGCAGGCGGAGGTTGCAGTGAGCCGAGATTGCGCCACTGCA
CTCCAGTCTGGGCGACAGAGCGAGACTCTGTCTCAGAAAAAAAAGAGCAAGGAGGTGTTGAAAATGGGTTTCC
TGGCTGGGCGTGGTGGCTCACGCTTGTAATCCCAGCACTTTGGGAAGCTGAGGTGGGCGGATCACTTGAGGTCAG
GAGTTTGAGACCAGCCTGGCCAACATGGTGAACACCGTCTCCACTAAAAATAGAAAAATTAAGTGGGTGTGGTG
GAGGGCGCTGTAATCCCAGCTAATCAGGAAGCTGAGACAGGAGGATCGCTTGAACCCAGGAGGCGGAGGTTGCA
GTGAGCCGAGATTGCTCCATTGCACTCCAGCCTGGGCGATAGAGTGAGACTCAGCCTCAAAAAAAAAAAAAAAAAA
AAAATTGCCAGGTGTGGTGGTGTGCGCCTATAATCCCAGCTACTCAGGAGGCAGAGGCACAAGAATGGCTTGAA
TCACTTGAACCTGGGAGGCAGAGGTTACAATGAGCCGAGATGGCACCCTGCACTCCAGCCTGGGCGACAGAGCG
AGACTCCGACTTCCCATCTTAAAAAAAAAAAAAAAAAAAAAAAAAGAGTGTAAGATGTGATTATGTGGCAGGGG
GTAAGGGTTAAAAAGAAAACAAGAACAAGTTTTCTCTGCTTAGCCAGCTTACTTCAAGGACAGTTATAAACTG
AAAAGTCGAGGCCAAAGGAATGGGCTCCAGACAGCCTCCTCCGAGCAAAGTTGAAAAGAAAAATTCCTTTACTG
TCTCTCCTTTTCTGAACCATTAATATGACTGTTTGCCAATGGTTGTATTTAGTAAGATTTGTAGACTCTGTTTT
TCTTTTGACACAGCTGCAAGGCCAACAGCTGTGCAAAGCCACAAGTTATGCTAAGTCAGCAGTTATGCTATAGAT
TACATGACCTGTGACTGTATCATTAAGTCTTTGTTTTGCTTCTGTAAGTTTGCCTATAAAAAACCACACTCAGT
CTTTGTTCAATGGTCAGCTTTTCAGATACAAATCCACTGAGCCGGTGTACATCTAAATAAATCCTCCTGTTTCCC
GT

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FIGURE 5245

MAPLHSSLGDRARLRPLILKKKKKKKKCKDVIMWQGVVRVKKKTRTSFPLLSQLTSRTVITLKSRGQRNGLQTAS
SGAKLKRKIPLLSLLF

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FIGURE 5246

GTTAGAGCAGAGGAGGTCCCAGATACCAAGTGGCGCCTCCAGGAAAGGCTGGGAGAAGAGGTGGCCTGGAGTAC
CCCGAGATCCCAGCAGCGCACACAGTGGAGGGATGAGGATGGATGGGTCCCTAACCCCTGATTTTGATGGGATGTG
TTCATGTCTATCTCCTCTCCTGGACACATTAAGGGGTGGGACAAGAAGAGACTCCTGTGAGATCAGCAGACCT
CGTGTTTAAGGAGAGAAATGCCTGCCTGCAACACTCATGGAGAGGGACACTTCCTGGCCCCACCTGCTAAATACCT
CCAAACTCTGGGCAGGCGCCTGCATTCTCAACACAGGACTTCCCTTAACAGTTTCCGGATCAGTGACCACCACCA
CGTTCAGGTTTCTGAATGCAGACCCACCACGAGGGATGGATTCCACCCGCCCCCCTGCTGCAGATACATGCGGC
ACAGCAGGCACGTGCCTGGAGAGAACAGCTCCTGAGCACAGCACCTTGGAGCCCTCACCCCGCTCACGATCCTC
ACCAGTGCTGATGATGCCGTCATGCTGCTGGCCTGAGACAGTATCCCAGCTACAACAGGACGACACCGGGTTTACG
GAATATGTGGCTATCACCTTGAGCACTGACAGTGGCCTTCCAGGCTAGTTGCCTTCCAAACGCAGGTAGCCGACC
TGCAGGAGGGCCTACAAACGGGCCCAGCAAGAGCTGGGCAACAGCTGGCTTGTGAAATGAGACACCTTGACCAAT
ATGCTTTGGGTGGACGGTCTCCTACATGTTTCACTGGAGGCCACCAGGAGCATCCATGAGCGGGGAAGGGGTCCAC
ACCCTTACATGGCAAGTTGATACGATGGGGTGCTTGGTGGATGGGCCATGGAGGTCCGTGAGCTGGAAGTGGGCA
CACGCCATCCCAGAGGGCTCAGGATGCCCCAGGAAGGAAAGAAGGGCAACAGACTACACGATTGGACGTGTGTGG
TTGACTGGGATGAAGTTGGAGGGAGGGGCAGGGCCTTGACAGGGGATTGGTACTGATCCCAGGGAGGAAGTGTGG
GGCTTCATGAAGTAGGATGAAAGGAGGCCCCTGAGCCATGACAAGGGGCACATCCAGGATTTCCGCCACCCTGAA
TTTAGTAGAGCTAGTAGGCCCTGGTCGTCACCTCTGGGCAGGGATGCCGTCAGCCTTGAGGGTCGCCACCCACCTG
TGTGTTGCCCTCTGTCTGGCAGGGAAACATACACCCCTTGTCTCACCACCAACCTTGCTTGTGTAGTCAGCAGG
GCTGGCCCTGCCCCAAGGACTCACTGCATGTACCCGGACCCCTAGGCCTGGCCTTTCAGCATAGTTGGGAGCTT
CTGGATTCCATCTGCACCTGTGAGCCCCATGCTGGCTGTGCACTGCGCGGGCCTGAGACTGCTGGATACAATGTT
GGGCAACAACCTCAGCCAGCCTGATGGCAGCCTCAGAGGCTTACTCTAACCCATCCCAGAATAAATGGAGACTTCA
TGTGTT

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FIGURE 5247A

GACCGTGAGGCCGAGCCGGGAGCGGGCGTCTTGCCGAGGCCCGGGCGGGGAGCAACGGCTACAGACGCCGC
GGGGCCAGGTCGTTGAGGGTCGGCGGGCGGGCGAGGAGCGCAGGGCGCTCGGGCCGGGGGCCCGGGCGCCATGGG
CAACCGCGGGATGGAAGAGCTGATCCCGCTGGTCAACAACTGCAGGACGCCTTCAGCTCCATCGGGCCAGAGCTG
CCACCTGGACCTGCCGCAGATCGCTGTAGTGGGCGGCCAGAGCGCCGGCAAGAGCTCGGTGCTGGAGAACTTCGT
GGGCGGGGACTTCCTTCCCCGCGGTTTCAGGAATCGTCACCCGGCGGCCCTCTCATTCTGCAGCTCATCTTCTCAA
AACAGAACATGCCGAGTTTTTGCAGTCAAGTCCAAAAAGTTTACAGACTTTGATGAAGTCCGGCAGGAGATTGA
AGCAGAGACCGACAGGGTCACGGGGACCAACAAAGGCATCTCCCCAGTGCCCATCAACCTTCGAGTCTACTCGCC
ACACGTGTTGAACTTGACCCTCATCGACCTCCCGGGTATCACCAAGGTGCCTGTGGGCGACCAGCCTCCAGACAT
CGAGTACCAGATCAAGGACATGATCCTGCAGTTCATCAGCCGGGAGAGCAGCCTCATTCTGGCTGTACGCCCCG
CAACATGGACCTGGCCAACTCCGACGCCCTCAAGCTGGCCAAGGAAGTCGATCCCCAAGGCCTACGGACCATCGG
TGTCATCACCAAGCTTGACCTGATGGACGAGGGCACCGACGCCAGGGACGTCTTGAGAGAACAAGTTGCTCCCGTT
GAGAAGAGGCTACATTGGCGTGGTGAACCGCAGCCAGAAGGATATTGAGGGCAAGAAGGACATCCGTGCAGCACT
GGCAGCTGAGAGGAAGTTCTTCTCTCCACCCGGCCTACCGGCACATGGCCGACCGCATGGGCACGCCACATCT
GCAGAAGACGCTGAATCAGCAACTGACCAACCACATCCGGGAGTCGCTGCCGGCCCTACGTAGCAAACCTACAGAG
CCAGCTGCTGTCCCTGGAGAAGGAGGTGGAGGAGTACAAGAATTTTCGGCCCGACGACCCCAACCGCAAACCAA
AGCCCTGCTGCAGATGGTCCAGCAGTTTGGGGTGGATTTTGAGAAGAGGATCGAGGGCTCAGGAGATCAGGTGGA
CACTCTGGAGCTCTCCGGGGGCGCCGAATCAATCGCATCTTCCACGAGCGGTTCCCATTTGAGCTGGTGAAGAT
GGAGTTTGACGAGAAGGACTTACGACGGGAGATCAGCTATGCCATTAAGAACATCCATGGAGTCAGGACCGGGCT
TTTCAACCCCGGACTTGGCATTGAGGCCATTGTGAAAAGCAGGTTCGTCAGCTGAAAGAGCCCTGTCTGAAATG
TGTCGACCTGGTTATCCAGGAGCTAATCAATACAGTTAGGCAGTGTACCAGTAAGCTCAGTTCCTACCCCCGGTT
GCGAGAGGAGACAGAGCGAATCGTCACCACTTACATCCGGGAACGGGAGGGGAGAACGAAGGACCAGATTCTTCT
GCTGATCGACATTGAGCAGTCTTACATCAACACGAACCATGAGGACTTCATCGGGTTTGCCAATGCCAGCAGAG
GAGCACGCAGCTGAACAAGAAGAGAGCCATCCCCAATCAGGGGGAGATCCTGGTGATCCGAGGGGGCTGGCTGAC
CATCAACAACATCAGCCTGATGAAAGGCGGCTCCAAGGAGTACTGGTTTGTGCTGACTGCCGAGTCACTGTCCTG
GTACAAGGATGAGGAGGAGAAAGAGAAGAAGTACATGCTGCCTCTGGACAACCTCAAGATCCGTGATGTGGAGAA
GGGCTTCATGTCCAACAAGCACGTCTTCGCCATCTTCAACACGGAGCAGAGAAACGTCTACAAGGACCTGCGGCA
GATCGAGCTGGCCTGTGACTCCCAGGAAGACGTGGACAGCTGGAAGGCCTCGTTCTTCCGAGCTGGCGTCTACCC
CGAGAAGGACCAGGCAGAAAACGAGGATGGGGCCAGGAGAACACCTTCTCCATGGACCCCCAACTGGAGCGGCA
GGTGGAGACCATTGCAACCTGGTGGACTCATACGTGGCCATCATCAACAAGTCCATCCGCGACCTCATGCCAAA
GACCATCATGCACCTCATGATCAACAATACGAAGGCCTTATCCACCACGAGCTGCTGGCCTACCTATACTCCTC
GGCAGACCAGAGCAGCCTCATGGAGGAGTCGGCTGACCAGGCACAGCGGCGGGACGACATGCTGCGCATGTACCA
TGCCCTCAAGGAGGCGCTCAACATCATCGGTGACATCAGCACCAGCACTGTGTCCACGCCTGTACCCCCGCTGT
CGATGACACCTGGCTCCAGAGCGCCAGCAGCCACAGCCCCACTCCACAGCGCCGACCGGTGTCCAGCATAACCC
CCCTGGCCGGCCCCCAGCAGTGAGGGGCCCCACTCCAGGGCCCCCCTGATTCTGTTCCTGGGGGCGAGCAGC
CTCCTTCTCGGCGCCCCCAATCCCATCCCGGCTTGGACCCAGAGCGTGTGTTGCCAACAGTGACCTCTTCCCAGC
CCCGCCTCAGATCCCATCTCGGCCAGTTCGGATCCCCCAGGGATTCCCCCAGGAGTGCCAGCAGAAGACCCCC
TGCTGCGCCAGCCGGCCCCACCATATCCGCCCAGCCGAGCCATCCCTGCTCGACTAGGCCTCGAGGGGGGCGTG
CTCTCGGGGGGGCCTCACGCACCCGCGGCGCAGGAGCTTCAGTGGTCTGGGGCCCTCCGCCGCCCTATGCTGGG
ACCAGGCTCCCAGTGGGCAGCCCTGGCCTCTTCTTAACGCTGGCCCCGGTCCAGGGCCGGCCCCCTGTGCCTGGC
TGGACACCGCACTGCGCAAAGGGGCCCTGGAGCTCCAGGCAGGGGGCGCTGGGGTGTGCACTTTGGGGGATGGA
GTCTCAGGGTGGCAGAGGGGGGACCAGAACCCTTGACACCATCCTGAATGAGGGGTCCAGCCTGGGGGGGACTCT
ACCAAGGTCTTCTTGGGCTGGGAAAGCCCATGTAGGGCAGGCCTTCTATAAGTGCGGGCACCAAGGGCGCCTACA
TCCCCAGGCCTTGCTGGGGTGCAGGGGTATATCAACTTCCCATTAGCAGGAGCTCCCCAGCGGCAAGCCTGGCCC
AGTGGGCTCGGTAGTGGCCAGCTGGCAGGCCTGAGGTGTACATAGTCTTCCCGCCATATTAACCACACAGCCT
GAGCCTGGCCCAGCCTCGGCTGCCAGAGGTGCCCTTGTAGGCCCGGAGCCGTGGCCCGGGCGGGCCTTGCCCT
ATTCTCTCCTCCTCCTCCTCCTGGGTCCCCCAGGGTGGCTGGGCTTGGGCTATGTGGGTGGTGGTGGCGGGGG
TCTTGGGGGCTCTCAGCTCCCGCCCATGCCCTCCCTGATGGGTGGGGCCAGGGCGGCCTCTCTCTGAGGAGACCT
CACCCACTCCTCGCTCAGTTTGACCACTGTAAGTGCCTGCACTCTGTATTCTATTAATAAACTAAATAAAGGGA

5694/6881
FIGURE 5247B

AGACGCTGCTGGTG

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FIGURE 5249

MAAAAAVGPAGGAGSAVPGGAGPCATVSVFPGARLLTIGDANGEIQRHAEQQALRLEVRAGPDSAGIALYSHE
DVCVFKCSVSRETECSRVGKQSFIIITLGCNSVLIQFATPNDFCSFYNILKTCRGHTLERSVFSERTEESSAVQYF
QFYGYLSQQQNMMDYVRTGTYQRAILQNHTDFKDKIVLDVGC GSGILSFFAAQAGARKIYAVEASTMAQHAEVL
VKSNNLTDRIVVIPGKVEEVSLPEQVDIIISEPMGYMLFNERMLESYLHAKKYLKP SGNMFPPTIGDVHLAPFTDE
QLYMEQFTKANFWYQPSFHGVDLSALRGAADVDEYFRQPVVDTFDIRILMAKSVKYTVNFLEAKEGDLHRIEIPFK
FHMLHSGLVHGLAFWFDVAFIGSIMTVWLSTAPTEPLTHWYQVRCLFQSPLFAKAGDTLSGTCLLIANKRQSYDI
SIVAQVDQTGSKSSNLLDLKNPFFRYTGTPSPPPGSHYTSPSENMWNTGSTYNLSSGMAVAGMPTAYDLSSVIA
SGSSVGHNLIPLANTGIVNHTHSRMGSIMSTGIVQGSSGAQGS GGGSTSAHYAVNSQFTMGGPAISMASPM SIP
TNTMHYGS

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FIGURE 5250

GGCACGAGGGGATGTTGCTGTCAGGTCTGAGTCGGTTGGAGTCTGACGGGTAGGCGAGACGCGCAGGCGCAGAGA
GCCCCAGCCACGCCGGCCAGGTGGCCTCAGCGAGGGATGCGGAGACGCCCCTGAACGACCATGGCATCGGCGGA
CGAGCTGACCTTCCATGAATTCGAGGAGGCCACTAATCTTCTGGCTGACACCCAGATGCAGCCACCACCAGCAG
AAGCGATCAGCTGACCCACAAGGGCACGTGGCTGTGGCCGTGGGCTCAGGTGGCAGCTATGGAGCCGAGGATGA
GGTGGAGGAGGAGAGTGACAAGGCCGCGCTCCTGCAGGAGCAGCAGCAGCAGCAGCAGCCGGGATTCTGGACCTT
CAGCTACTATCAGAGCTTCTTTGACGTGGACACCTCACAGGTCTGGACCGGATCAAAGGCTCACTGCTGCCCCG
GCCTGGCCACAACCTTGTGCGGCACCATCTGCGGAATCGGCCGGATCTGTATGGCCCCCTTCTGGATCTGTGCCAC
GTTGGCCTTTGTCTGGCCGTCAGTGGCAACCTGACGCTGGTGTGGCCAGAGGAGGGACCCCTCCATCCACTA
CAGCCCCAGTTCCACAAGGTGACCGTGGCAGGCATCAGCATCTACTGCTATGCGTGGCTGGTGCCCTGGCCCT
GTGGGGCTTCTGCGGTGGCGCAAGGGTGTCCAGGAGCGCATGGGGCCCTACACCTTCTGGAGACTGTGTGCAT
CTACGGCTACTCCCTCTTTGTCTTCATCCCCATGGTGGTCTGTGGCTCATCCCTGTGCCTTGGCTGCAGTGGCT
CTTTGGGGCGCTGGCCCTGGGCCTGTGAGCCGCCGGGCTGGTATTACCCCTCTGGCCCGTGGTCCGTGAGGACAC
CAGGCTGGTGGCCACAGTGCTGCTGTCCGTGGTCTGCTGCTCCACGCCCTCCTGGCCATGGGCTGTAAGTTGTA
CTTCTTCCAGTCGCTGCCTCCGGAACGTGGCTCCTCCTCCCAAATCACATCTCTGCCCTCAAACATCGCGCT
GTCCCCTACCTTGCCGAGTCCCTGGCCCCCTCCTAGGAAAGGCCCGGTCCCACAGGCAACACCTAAGTGGACCA
ACCCCTCTGCCTGTCTTGGCCCCCAGACGATGACTGAAGGCTCCTTTGACACCTTGAGATGATTCTGCTACTTTC
CAGACTTTTCTTACAAAGCAAACACTTTTATTTTCTATGCAAAGGTGATTGAGAGAATTTATATAAAGGCGGGCG
AGGGGCAGCCGAGCAGGGAGCTTTGGGACAGGGCTGGGGCCCCCATATCCCCCGGGCCACCTGCTTCCCTCC
TATGGCTCCCTGGAACAGGAGGGAGAGCAAGGGGGCGGGCCAGCCTGGACAGCGCCCGCTCCTGCCTGGGTGC
ACACACGGCGGGCCTGAGCTCCAGCATCTGAGTTTGGGGGTATGAGAAACAGGGGAGCAGAAGGAGAAGAAAAC
GCCTGTGCTGCAA

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FIGURE 5251

MASADELTFHEFEEATNLLADTPDAATTSRSDQLTPQGHVAVAVGSGGSYGAEDEVEEESDKAALLQEQQQQQQP
GFWTFSYYQSFFDVDTSQVLDRIKGSLLPRPGHNFVRHHLRNRPDLYGPFWICATLAFVLAVTGNTLVLAQRRD
PSIHYSPOFHKVTVAGISIIYCYAWLVPLALWGFLRWKGVQERMGPYTFLETVCIIYGYSIFVFIPMVVLWLIPVP
WLQWLF GALALGLSAAGLVFTLWPFVVREDTRLVATVLLSVVLLHALLAMGCKLYFFQSLPPENVAPPPQITSLP
SNIALSPTLPQSLAPS

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FIGURE 5252

GAAGAGACTCCCGGGCTCTTAACGTCGGGTATCAGGAGTTTCTTCCCGGAGCAAGGACCCCCAAGACGGAAGAGG
ATGGCCGCGGCGGGCTCTGAGGAGATTTTGGTCCCGGCGCCGCGCAGAGGCGGGCGACGCGGTAGTGGCGAAGCCG
GGAGTGTGGGCGCGGGCTGGGGTCCCTGGGCCCCGCGCGCTGCTCCGGGACTACGCCGAGGCCTGCAGGGACGCTTCG
GCGGAGGCTAGGGCCCCGGCCGGGGCGCGCCGCTGTGTATGTGGGTCTGCTGGGCGGCGCGGCGGCCTGCTTCACG
CTGGGCGCCAGCGAGGGTGCCCTTCGAGGAGGCGCTGCTGGAGGCGTCCGGGACCCCTCCTGCTGCTGGCGCCGGCC
ACCCGCAACCGCGAGTCCGAAGCCTTCGTGCAGAGGCTGCTCTGGCTGCGGGGCCGTGGCCGCCTGCGCTACGTC
AACCTGGGGCTCTGCTCGCTGGTGTACGAGGCGCCCTTCGACGCCCAGGCCAGCCTCTACCAGGCGCGTTGCCGC
TACCTGCAGCCCCGCTGGACCGACTTCCCCGGCCGGGTCTTGACGTGGGCTTCGTGGGTGCTGGTGGGTGCTG
GGGGCCTGGATGCGCGACTGCGACATCAACGACGACGAATTCCTGCACCTGCCGGCGCATTTCGCGGTGGTCGGG
CCCCAGCAGCTGCATTCCGAGACCAACGAGCGGCTCTTCGATGAGAAGTACAAGCCTGTCGTGCTCACCGACGAT
CAGGTGGACCAGGCGCTGTGGGAGGAGCAGGTCTTGAGAAGGAGAAGAAGGACAGGCTCGCCCTGAGCCAGGCC
CACTCGCTGGTGCAGGCGGAGGCCCGAGATTGAAACCCTGAGGCCCGGAGTCTTGCAAACTGCTTGCCTGGGG
TGGTGCAGTTCTGAGTGTGCCTCACCTGCAGAACAGCTGAGACAGATGATGTGCAAAGTGTTTTCTCACTGGATT
TGCACAAGTTTGGGGAGCCTTTCTGCCCCCGTCTTTGTTCTTTATTAGCTGAAGCTAATTCAGAGCCACCTGGG
TCCGGGAGTTGGGGACAGCAGAACGACTTGACACATGTTTCATCACTGGCAGAGCTGGTCATGAGCCTTTTATATA
AGCCTTTTTTCATCGGGCCTCAGAGGCCCTCCTTAAGGAGGTACCACATTGGTCAGCTGACTTGCAAACCTCTTCTA
AGGCCACTTAGATTTTCTTTTCAAGTTTGGGTGTGGCCTGGCATGGTGATGTCTGTAATCCAGCAGTTTGCA
AACTGAGGCAAGAGAATCGCTTGAGGCCAGGAGTTTGAAGCCAGCTAGAGTGACATAGCAAGACTCCGATGCTAC
AAAAAAGAATAATAATAGTAATTAATAATAAAATTTGAGCTG

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FIGURE 5253

MAAAALRRFWSRRRAEAGDAVVAKPGVWARLGSWARALLRDYAEACRDASAEARARPGRAAVYVGLLGAAACFT
LAPSEGAFFEEALLEASGTLILLAPATRNRESEAFVQRLLWLRGRGRLRYVNLGLCSLVYEAPFDAQASLYQARCR
YLQPRWTDFFPGRVLDVGFVGRWWVLGAWMRDCDINDDEFLLHLPALHRRVVGPPQLHSETNERLFDEKYKPVVLTDD
QVDQALWEEQVLQKEKKDRLALSQAHSVLVQAEAPR

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FIGURE 5254A

CGCCGCGGTGCTGAGGGGGAGGGGAGCCGGCGAGCGCGCGCGCAGCGGGGGCGCGGGTGGCGCGCGTGTGTGTGA
AGGGGGGGCGGTGGCCGAGGCGGGCGGGCGCGCGCGAGGCTTCCCTCGTTTGGCGGGCGGGCGGGCTTCTTT
GTTTCGTGAAGAGAAGCGAGACGCCATTCTGCCCCCGCCCCGCGCGGAGGGGCGGGGAGGCGCCGGGAAGTC
GACGGCGCCGGCGGCTCCTGCAGGAGGCCACTGTCTGCAGCTCCCGTGAAGATGCTCCACTCCAGACCCACCCCTG
GGCGGAATCCTCGGCCAGGTCCTTCCCCGGGCCCTGGCCCTTCCCTGGAGCCATGCTGGGGCCCTAGCCCCGGGT
CCCTCGCCGGGCTCCGCCACAGCATGATGGGGCCAGCCAGGGCCGCCCTCAGCAGGACACCCCATCCCCACC
CAGGGGCCCTGGAGGGTACCCTCAGGACAACATGCACCAGATGCACAAGCCCATGGAGTCCATGCATGAGAAGGGC
ATGTCGGACGACCCGCGCTACAACCAGATGAAAGGAATGGGGATGCGGTGAGGGGGCCATGCTGGGATGGGGCCC
CCGCCAGCCCCATGGACCAGCACTCCCAAGGTTACCCCTCGCCCCCTGGGTGGCTCTGAGCATGCCTCTAGTCCA
GTTCCAGCCAGTGGCCCCGTCTTCGGGGCCCCAGATGTCTTCGGGGCCAGGAGGTGCCCCGCTGGATGGTGTGAC
CCCCAGGCCCTTGGGGCAGCAGAACCAGGGGGCCCAACCCATTAAACCAAGAACAGCTGCACCAGCTCAGAGCTCAG
ATCATGGCCTACAAGATGCTGGCCAGGGGGCAGCCCCCTCCCCGACCACCTGCAGATGGCGGTGCAGGGCAAGCGG
CCGATGCCCGGGATGCAGCAGCAGATGCCAACGCTACCTCCACCTCGGTGTCCGCAACAGGACCCGGCCCTGGC
CCTGGCCCTGGCCCCGGCCCCGGGTCCCGGGCCCGCACCTCCAAATTACAGCAGGCCTCATGGTATGGGAGGGCCC
AACATGCCTCCCCAGGACCTCGGGCGTGCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCCTCCCAAGCCC
TGGCCTGAAGGACCCATGGCGAATGCTGCTGCCCCACGAGCACCCCTCAGAAGCTGATTCCCCCGCAGCCAACG
GGCCGCCCTTCCCCCGCGCCCCCTGCCGTCCACCCGCGCCTCGCCGTGATGCCACCGCAGACCCAGTCCCCC
GGGCAGCCGGGCCAGCCCGCGCCCATGGTGCCACTGCACCAGAAGCAGAGCCGCATACCCCCATCCAGAAGCCG
CGGGGCCCTCGACCTGTGGAGATCCTGCAGGAGCGCGAGTACAGGCTGCAGGCTCGCATCGCACACCGAATTAG
GAACTTGAAGAACCTTCCCGGGTCCCTGGCCGGGGATTGCGAACCAAGCGACCATTGAGCTCAAGGCCCTCAGG
CTGCTGAACCTTCCAGAGGCAGCTGCGCCAGGAGGTGGTGGTGTGCATGCGGAGGGACACAGCGCTGGAGACAGCC
CTCAATGCTAAGGCCTACAAGCGCAGCAAGCGCCAGTCCCTGCGCGAGGCCCCGCATCACTGAGAAGCTGGAGAAG
CAGCAGAAGATCGAGCAGGAGCGCAAGCGCCGGCAGAAGCACCAGGAATACCTCAATAGCATTCTCCAGCATGCC
AAGGATTTCAAGGAATATCACAGATCCGTACAGGCCAAAATCCAGAAGCTGACCAAGGCAGTGGCCACGTACCAT
GCCAACACGGAGCGGGAGCAGAAGAAAGAGAACGAGCGGATCGAGAAGGAGCGCATGCGGAGGCTCATGGCTGAA
GATGAGGAGGGGTACCGCAAGCTCATCGACCAGAAGAAGGACAAGCGCCTGGCCTACCTCTTGACGACAGACAGAC
GAGTACGTGGCTAACCTCACGGAGCTGGTGCGGCAGCACAAGGCTGCCCAGGTGCGCAAGGAGAAAAAGAAGAAA
AAGAAAAAGAAGAAGGCAGAAAATGCAGAAGGACAGACGCTGCCATTGGGCGGATGGCGAGCCTCTGGACGAG
ACCAGCCAGATGAGCGACCTCCCGGTGAAGGTGATCCACGTGGAGAGTGGGAAGATCCTCACAGGCACAGATGCC
CCCAAAGCCGGGCAGCTGGAGGCCTGGCTCGAGATGAACCCGGGGTATGAAGTAGCTCCGAGGTCTGATAGTGAA
GAAAGTGGCTCAGAAGAAGAGGAAGAGGAGGAGGAAGAGCAGCCGAGGCAGCACAGCCTCCCACCCTGCCC
GTGGAGGAGAAGAAGAAGATTCCAGATCCAGACAGCGATGACGTCTCTGAGGTGGACGCGCGGCACATCATTGAG
AATGCCAAGCAAGATGTCGATGATGAATATGGCGTGTCCAGGCCCTTGACAGTGGCTGCAGTCTACTATGCC
GTGGCCCATGCTGTCACTGAGAGAGTGGACAAGCAGTCAGCGCTTATGGTCAATGGTGTCTCAAACAGTACCAG
ATCAAAGGTTTGGAGTGGCTGGTGTCCCTGTACAACAACAACCTGAACGGCATCCTGGCCGACGAGATGGGCCTG
GGGAAGACCATCCAGACCATCGCGCTCATCACGTACCTCATGGAGCACAAACGCATCAATGGGCCCTTCTCATC
ATCGTGCCCTCTCTCAACGCTGTCCAAGTGGGCGTACGAGTTTGACAAGTGGGCCCCCTCCGTGGTGAAGGTGTCT
TACAAGGGATCCCCAGCAGCAAGACGGGCCTTTGTCCCCAGCTCCGGAGTGGGAAGTTCAACGTCTTGCTGACG
ACGTACGAGTACATCATCAAGACAAGCACATCCTCGCCAAGATCCGTTGGAAGTACATGATTGTGGACGAAGGT
CACCGCATGAAGAACCACCACTGCAAGCTGACGCAGGTGCTCAACACGCACTATGTGGCACCCCGCCGCTGCTG
CTGACGGGCACACCGCTGCAGAACAAGCTTCCCGAGCTCTGGGCGCTGCTCAACTTCTGCTGCCACCATCTTC
AAGAGCTGCAGCACCTTCGAGCAGTGGTTTAACGCACCCCTTTGCCATGACCGGGGAAAAGGTGGACCTGAATGAG
GAGGAAACCAATTCTCATCATCCGGCGTCTCCACAAAGTGTGCGGCCCTTCTTGCTCCGACGACTCAAGAAGGAA
GTCGAGGCCCAGTTGCCCGAAAAGGTGGAGTACGTATCAAGTGCGACATGTCTGCGCTGCAGCGAGTGTCTAC
CGCCACATGCAGGCCAAGGGCGTGTGCTGACTGATGGCTCCGAGAAGGACAAGAAGGGCAAAGGCGGCACCAAG
ACCCTGATGAACACCATCATGCAGCTGCGGAAGATCTGCAACCACCCCTACATGTTCCAGCACATCGAGGAGTCC
TTTCCGAGCACTTGGGGTTCACTGGCGGCATTGTCCAAGGGCTGGACCTGTACCGAGCCTCGGGTAAATTTGAG
CTCTTGATAGAATTCTTCCCAAACCTCCGAGCAACCAACCACAAAGTGTGCTGTTCTGCCAAATGACCTCCCTC

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FIGURE 5254B

ATGACCATCATGGAAGATTACTTTGCGTATCGCGGCTTTAAATACCTCAGGCTTGATGGAACCACGAAGGCGGAG
GACCGGGGCATGCTGCTGAAAACCTTCAACGAGCCCGGCTCTGAGTACTTCATCTTCCTGCTCAGCACCCGGGCT
GGGGGGCTCGGCCTGAACCTCCAGTCGGCAGACACTGTGATCATTTTTTGACAGCGACTGGAATCCTCACCAGGAC
CTGCAAGCGCAGGACCGAGCCCACCGCATCGGGCAGCAGAACGAGGTGCGTGTGCTCCGCCTCTGCACCGTCAAC
AGCGTGGAGGAGAAGATCCTAGCTGCAGCCAAGTACAAGCTCAACGTGGACCAGAAGGTGATCCAGGCCGGCATG
TTCGACCAGAAGTCCTCCAGCCATGAGCGGCGCGCCTTCCTGCAGGCCATCCTGGAGCACGAGGAGCAGGATGAG
AGCAGACACTGCAGCACGGGCAGCGGCAGTGCCAGCTTCGCCACACTGCCCTCCGCCAGCGGGCGTCAACCCC
GACTTGGAGGAGCCACCTCTAAAGGAGGAAGACGAGGTGCCCCAGCAGCAGAGACCGTCAACCAGATGATCGCCCGG
CACGAGGAGGAGTTTGATCTGTTTCATGCGCATGGACCTGGACCGCAGGCGCGAGGAGGCCCGCAACCCCAAGCGG
AAGCCGCGCCTCATGGAGGAGGACGAGCTCCCCCTCGTGGATCATCAAGGACGACGCGGAGGTGGAGCGGCTGACC
TGTGAGGAGGAGGAGGAGAAGATGTTGCGCCGTGGCTCCCGCCACCGCAAGGAGGTGGACTACAGCGACTCACTG
ACGGAGAAGCAGTGGCTCAAGGCCATCGAGGAGGGCAGCTGGAGGAGATCGAAGAGGAGGTCCGGCAGAAGAAA
TCATCACGGAAGCGCAAGCGAGACAGCGACGCCGGCTCCTCCACCCCGACCACCAGCACCCGCAGCCGCGACAAG
GACGACGAGAGCAAGAAGCAGAAGAAGCGCGGGCGGCCCTGCCGAGAACTCTCCCTAACCCACCCAACTC
ACCAAGAAGATGAAGAAGATTGTGGATGCCGTGATCAAGTACAAGGACAGCAGCAGTGGACGTGAGCTCAGCGAG
GTCTTCATCCAGCTGCCCTCGCGAAAGGAGCTGCCCCAGTACTACGAGCTCATCCGCAAGCCCGTGGACTTCAAG
AAGATAAAGGAGCGCATTCGCAACCACAAGTACCGCAGCCTCAACGACCTAGAGAAGGACGTATGCTCCTGTGC
CAGAACGCACAGACCTTCAACCTGGAGGGCTCCCTGATCTATGAAGACTCCATCGTCTTGACGTGGTCTTCACC
AGCGTGCAGCAGAAAATCGAGAAGGAGGATGACAGTGAAGGCGAGGAGAGTGAGGAGGAGGAAGAGGGCGAGGAG
GAAGGCTCCGAATCCGAATCTCGGTCCGTCAAAGTGAAGATCAAGCTTGGCCGGAAGGAGAAGGCACAGGACCGG
CTGAAGGGCGGCCGGCGGCCGAGCCGAGGGTCCCGAGCCAAGCCGGTCTGTGAGTGACGATGACAGTGAGGAG
GAACAAGAGGAGGACCGCTCAGGAAGTGGCAGCGAAGAAGACTGAGCCCCGACATTCCAGTCTCGACCCCGAGCC
CCTCGTTCCAGAGCTGAGATGGCATAGGCCTTAGCAGTAACGGGTAGCAGCAGATGTAGTTTCAGACTTGAGTA
AACTGTATAAACAAGAAATCTTCCATATTTATACAGCAGAGAAGCTGTAGGACTGTTTGTGACTGGCCCTGTC
CTGGCATCAGTAGCATCTGTAACAGCATTAAGTGTCTTAAAGAGAGAGAGAGAATTCCGAATTGGGGAACACA
CGATACCTGTTTTTCTTTCCGTTGCTGGCAGTACTGTTGCGCCGAGTTTGGAGTCACTGTAGTTAAGTGTGGA
TGCATGTGCGTCACCGTCCACTCCTCTACTGTATTTTATTGGACAGGTCAGACTCGCCGGGGGCCCGGCGAGGG
TATGTCAGTGTCACTGGATGTCAAACAGTAATAAATTAACCAACAACAAAACGCA

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FIGURE 5255

MSTPDPLGGTPRPGPSPGGPGSPGAMLGPSGPGSPGSAHSMGPGSPGPPSAGHP IPTQGPGGY PQDNMHQMHKP
MESMHEKGMSDDPRYNQMKGMGMRSGGHAGMGPPSPMDQHSQGYP SPLGGSEHASSPVPASGPSSGPQMSSGPG
GAPLDGADPQALGQONRGPTFFNQNLHQLRAQIMAYKMLARGQPLPDHLQMAVQGKRPMPGMQQQMPTLPPPSV
SATGPGPGPGPGPGPGPGPAPPNYSRPHGMGGPNMPPPGPSGVPPGMPGQPPGGPPKPWPEGPMANAAAPTSTPQ
KLIPPQPTGRPSPAPPVFPAAASPVMPPQTQSPGQPAQAPMVPLHQKQSRITP IQKPRGLDPVEILQEREYRLQ
ARIAHRIQELENLPGLAGDLRTKATIELKALRLNFORQLRQEVVCMRRDTALETALNAKAYKRSKRQSLREA
RITEKLEKQKIEQERKRRQKHQEYLSILOHAKDFKEYHRSVTGKIQKLT KAVATYHANTEREQKENERIEKE
RMRRLMAEDEEGYRKLI DQKKDKRLAYLLQQTDEYVANLTELVRQHKAQVAKEKKKKKKKKKAENAEGQTPAIG
PDGEPLDETSQMSDLPVKVIHVESGKILTGTDAPKAGQLEAWLEMNPGYEVAPRSDSEESGSEEEEEEEEEEQPQ
AAQPPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVDDDEYGVSQLARGLQSYAVAHAVTERVDKQSALMV
NGVLKQYQIKGLEWLVS LYNNNLNGILADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKW
APSVVKVSYKGS PAARRAFVPQLRSGKFNVLLTTYEYI IKDKHILAKIRWKYMI VDEGHRMKNHHCKLTQVLNTH
YVAPRRLLLTGTP LQNKLP ELWALLN FLLPTIFKSCSTFEQWFNAPFAMTGEKVDLNEEETILIIRRLHKVLRPF
LLRRLKKEVEAQLPEKVEYVIKCDMSALQRVLYRHMQAKGVLLTDGSEKDKKGKGGTKTLMNTIMQLRKICNHPY
MFQHIEESFSEHLGFTGGIVQGLDLYRASGKFELLDRI LPKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKYLR
LDGTTKAEDRGMLLKT FNEPGSEYFIFLLSTRAGGLGLNLQSADTVI IFDS DWNPHQDLQAQDRAHRIGQQNEVR
VLR LCTVNSVEEKILAAKYKLNVDQKVIQAGMFDQSSSHERRAFLQAILEHEEQDES RHCSTGSGSASF AHTA
PPPAGVNPDL EEPPLKEEDEV PDET VNQMIARHEEEFDLFMRMDLDRRREEARNPKRKPRLMEEDELPSWIIKD
DAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAIEEGTLEEIEEEV RQKKS SRKRKRDSDAGSSTPT
TSTRSRDKDDESKKQKKRGRPPAEKLS PNPPLTKMKKIVDAVIKYKDSSSGRQLSEVFIQLPSRKELPEYYEL
IRKPVDFKKIKERIRNHKYRSLNDLEKDVMLLCQNAQT FNLEGLIYEDSIVLQSVFTSVRQKIEKEDDSEGEES
EEEEEGEEGSESESRSVKVKIKLGRKEKAQDRLKGRRRPSRGSRAKPVVSDDDSEEEQEEDRSGSGSEED

5704/6881
FIGURE 5256A

GCCCCGAGTGCAATCGCGGGAAGCCAGGGTTTCCAGCTAGGACACAGCAGGTCGTGATCCGGGTCGGGACACTGC
CTGGCAGAGGCTGCGAGCATGGGGCCCTGGGGCTGGAATTTGCGCTGGACCGTCGCCTTGCTCCTCGCCGCGGCG
GGGACTGCAGTGGGCGACAGATGCGAAAGAAACGAGTTCCAGTGCCAAGACGGGAAATGCATCTCCTACAAGTGG
GTCTGCGATGGCAGCGCTGAGTGCCAGGATGGCTCTGATGAGTCCCAGGAGACGTGCTTGTCTGTACCTGCAAA
TCCGGGGACTTCAGCTGTGGGGGCCGTGTCAACCGCTGCATTCTCAGTTCTGGAGGTGCGATGGCCAAGTGGAC
TGCGACAACGGCTCAGACGAGCAAGGCTGTCCCCCAAGACGTGCTCCCAGGACGAGTTTCGCTGCCACGATGGG
AAGTGCATCTCTCGGCAGTTTCGTCTGTGACTCAGACCGGGACTGCTTGGACGGCTCAGACGAGGCCCTCCTGCCCCG
GTGCTCAGCTGTGGTCCCGCCAGCTTCCAGTGCAACAGCTCCACCTGCATCCCCAGCTGTGGGGCTGCGACAAC
GACCCCGACTGCGAAGATGGCTCGGATGAGTGGCCGAGCGCTGTAGGGGTCTTTACGTGTTCCAAGGGGACAGT
AGCCCCCTGCTCGGCCTTCGAGTTCCACTGCCTAAGTGGCGAGTGCATCCACTCCAGCTGGCGCTGTGATGGTGGC
CCCGACTGCAAGGACAAATCTGACGAGGAAAACCTGCGCTGTGGCCACCTGTGCGCCTGACGAATTCAGTGCTCT
GATGGAAACTGCATCCATGGCAGCCGGCAGTGTGACCGGGAATATGACTGCAAGGACATGAGCGATGAAGTTGGC
TGCGTTAATGTGACACTCTGCGAGGGACCCAACAAGTTCAAGTGTACAGCGGCGAATGCATCACCTGGACAAA
GTCTGCAACATGGCTAGAGACTGCCGGGACTGGTCAGATGAACCCATCAAAGAGTGCGGGACCAACGAATGCTTG
GACAACAACGGCGGCTGTTCACAGTCTGCAATGACCTTAAGATCGGCTACGAGTGCCTGTGCCCCGACGGCTTC
CAGCTGGTGGCCCAGCGAAGATGCGAAGATATCGATGAGTGTGAGGATCCCGACACCTGCAGCCAGCTCTGCGTG
AACCTGGAGGGTGGCTACAAGTGCCAGTGTGAGGAAGGCTTCCAGCTGGACCCCCACACGAAGGCCTGCAAGGCT
GTGGGCTCCATCGCTACCTCTTCTTCAACACCGGCACGAGGTGAGGAAGATGACGCTGGACCGGAGCGAGTAC
ACCAGCCTCATCCCCAACCTGAGGAACGTGGTCGCTCTGGACACGGAGGTGGCCAGCAATAGAATCTACTGGTCT
GACCTGTCCAGAGAATGATCTGCAGCACCCAGCTTGACAGAGCCCCACGGCGTCTCTTCTATGACACCGTCATC
AGCAGAGACATCCAGGCCCCCGACGGGCTGGCTGTGGACTGGATCCACAGCAACATCTACTGGACCGACTCTGTC
CTGGGCACTGTCTCTGTTGCGGATACCAAGGGCGTGAAGAGGAAAACGTTATTCAGGGAGAAGGGCTCCAAGCCA
AGGGCCATCGTGGTGGATCCTGTTTCATGGCTTCATGTACTGGACTGACTGGGGAACTCCCGCCAAGATCAAGAAA
GGGGGCTGAATGGTGTGGACATCTACTCGCTGGTGGTGAAGAACATTCAGTGGCCCAATGGCATCACCTAGAT
CTCCTCAGTGGCCGCTCTACTGGGTTGACTCCAACTTCACTCCATCTCAAGCATCGATGTCAACGGGGGCAAC
CGGAAGACCATCTTGGAGGATGAAAAGAGGCTGGCCACCCCTTCTCCTTGGCCGTCTTTGAGGACAAAGTATTT
TGGACAGATATCATCAACGAAGCCATTTTCAGTGCCAACCGCCTCACAGGTTCCGATGTCAACTTGTGGCTGAA
AACCTACTGTCCCCAGAGGATATGGTTCTCTTCCACAACCTCACCCAGCCAAGAGGAGTGAAGTGGTGTGAGAGG
ACCACCTGAGCAATGGCGGCTGCCAGTATCTGTGCCTCCCTGCCCCGAGATCAACCCCACTCGCCCCAAGTTT
ACCTGCGCTGCCCCGACGGCATGCTGCTGGCCAGGGACATGAGGAGCTGCCCTCACAGAGGCTGAGGCTGCAGTG
GCCACCCAGGAGACATCCACCGTCAGGCTAAAGGTGAGCTCCACAGCCGTAAGGACACAGCACACAACCAACCCGA
CCTGTTCCCGACACCTCCCGGCTGCCTGGGGCCACCCCTGGGCTCACCCAGGTGGAGATAGTGACAATGTCTCAC
CAAGCTCTGGGCGACGTTGCTGGCAGAGGAAATGAGAAAGAGCCAGTAGCGTGAGGGCTCTGTCCATTGTCTC
CCCATCGTGCTCCTCGTCTTCTTTGCTGGGGGTCTTCTTCTATGGAAGAACTGGCGGCTTAAGAACATCAAC
AGCATCAACTTTGACAACCCCGTCTATCAGAAGACCACAGAGGATGAGGTCCACATTTGCCACAACAGGACGGC
TACAGCTACCCCTCGAGACAGATGGTCAGTCTGGAGGATGACGTGGCGTGAACATCTGCCTGGAGTCCCGTCCCT
GCCAGAACCCTTCTGAGACCTCGCCGGCCTTGTTTTATTCAAAGACAGAGAAGACCAAAGCATTGCCTGCCAG
AGCTTTGTTTTATATATTTATTCATCTGGGAGGCAGAACAGGCTTCGGACAGTGCCCATGCAATGGCTTGGGTTG
GGATTTTGGTTTCTTCTTCTCTCGTGAAGGATAAGAGAAACAGGCCCGGGGGACCAGGATGACACCTCCATTT
CTCTCAGGAAGTTTTGAGTTTCTCTCCACCGTGACACAATCCTCAAACATGGAAGATGAAAGGGGAGGGGATGT
CAGGCCCAGAGAAGCAAGTGGCTTTCAACACACAACAGCAGATGGCACCACCGGACCCCTGGCCCTGCCTCAT
CCACCAATCTCTAAGCCAAACCCCTAAACTCAGGAGTCAACGTGTTTACCTCTTCTATGCAAGCCTTGCTAGACA
GCCAGGTTAGCCTTTGCCCTGTCAACCCCGAATCATGACCCACCCAGTGTCTTTCAGGTGGGTTTGTACCTTCC
TTAAGCCAGGAAAGGGATTTCATGGCGTCGGAATGATCTGGCTGAATCCGTGGTGGCACCAGACCAAACTCATT
CACCAATGATGCCACTTCCAGAGGCAGAGCCTGAGTCACTGGTCACCCCTAATATTTATTAAGTGCCTGAGAC
ACCCGGTTACCTTGGCCGTGAGGACACGTGGCCTGCACCCAGGTGTGGCTGTGAGGACACAGCCTGGTGGCCAT
CCTCCCGACCCCTACCCACTTCCATTCCCGTGGTCTCCTTGCACCTTCTCAGTTTCAAGTGTGACTGTGTACA
TTTGGCATTGTGTTATTATTTTGCACCTGTTTCTGTGCTGTGTTGGGATGGGATCCAGGCCAGGGAAAGCC

5705/6881
FIGURE 5256B

CGTGTCAATGAATGCCGGGGACAGAGAGGGGCAGGTTGACCGGGACTTCAAAGCCGTGATCGTGAATATCGAGAA
CTGCCATTGTCTCTTTATGTCCGCCCACCTAGTGCTTCCACTTCTATGCAAATGCCTCCAAGCCATTCACTTCC
CCAATCTTGTCTGTTGATGGGTATGTGTTTAAACATGCACGGTGAGGCCGGGCGCAGTGGCTCACGCCTGTAATC
CCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGTGAGGAGATCGAGACCATCCTGGCTAACACGTGAAAC
CCCGTCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGC
TGAGGCAGGAGAATGGTGTGAACCCGGGAAGCGGAGCTTGAGTGAGCCGAGATTGCGCCACTGCAGTCCGCAGT
CTGGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAACAAAAAAACCATGCATGGTGCATCAGCAG
CCCATGGCCTCTGGCCAGGCATGGCGAGGCTGAGGTGGGAGGATGGTTTGAGCTCAGGCATTTGAGGCTGTCGTG
AGCTATGATTATGCCACTGCTTTCCAGCCTGGGCAACATAGTAAGACCCCATCTCTTAAAAAATGAATTTGGCCA
GACACAGGTGCCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGCTGGATCACTTGAGTTCAGGAGTTGGAG
ACCAGGCCTGAGCAACAAAGCGAGATCCCATCTCTACAAAAACCAAAAAGTTAAAAATCAGCTGGGTACGGTGGC
ACGTGCCTGTGATCCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCGCCTGAGCCCAGGAGGTGGAGGTTGCAGT
GAGCCATGATCGAGCCACTGCACTCCAGCCTGGGCAACAGATGAAGACCCATTTTCAAGAAATACAACTATAAAAA
AATAAATAAATCCTCCAGTCTGGATCGTTTTGACGGGACTTCAGGTTCTTTCTGAAATCGCCGTGTTACTGTTGCA
CTGATGTCCGGAGAGACAGTGACAGCCTCCGTCAGACTCCCGCGTGAAGATGTCACAAGGGATTGGCAATTGTCC
CCAGGGACAAAACACTGTGTCCCCCAGTGCAGGGAACCGTGATAAGCCTTTCTGGTTTCGGAGCACGTAAATG
CGTCCCTGTACAGATAGTGGGATTTTTTGTATGTTTGCACCTTTGTATATTGGTTGAACTGTTATCACTTATA
TATATATATATACACACATATATATAAAATCTATTTATTTTGCAAACCCTGGTTGCTGTATTTGTTTCAGTGA
ATTCTCGGGGCCCTGTGTAGGGGTTATTGCCTCTGAAATGCCTCTTCTTTATGTACAAAGATTATTTGCACGAA
CTGGACTGTGTGCAACGCTTTTTGGGAGAATGATGTCCCGTTGTATGTATGAGTGGCTTCTGGGAGATGGGTGT
CACTTTTTAAACCACTGTATAGAAGGTTTTTGTAGCCTGAATGTCTTACTGTGATCAATTAAATTTCTTAAATG

5706/6881
FIGURE 5257

AGTCTGCGCGGCGCGGCCAGGCCCGGCCGACCGCGTCTCGGTCTTCGCGTCTGCCAGCCTGGCTGGCAGTCCGTC
TGTCCATCCCGCCGCGCGCGGGGCAGTCTAGGCGGAGCGGGGGCTCAGGCGGCGGCGGCCTCGACGCGAGTGAGTG
TCGTGGTTGGGGTGCTGGACCCAGAGTGCCTACCCTCGCCTGCCTGGGCCTCAGTTTCCACATCTGCACAATGGG
GGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGTGAGTCTTCAGGCGTGGATGCAGCCTGGGGGAAGCC
ATAGGGCGCTTTCACAGGCCTGGCCTTCACCATGGCGGGAGGGAGACCGCATCTGAAGAGGAGTTTCTCCATCAT
CCCCTGCTTTGTCTTCGTGGAGTCGGTGTCTGCTGGGCATTGTGATCCTGCTTGCTTACCGCCTGGAGTTCACGGA
CACCTTCCCTGTGCACACCCAGGGATTCTTCTGCTATGACAGTACCTACGCCAAGCCCTACCCAGGGCCTGAGGC
TGCCAGCCGAGTGCCCTCCTGCTCTTGTCTACGCACTGGTCACTGCCGGGCCACCCCTCACGATCCTGCTGGGAGA
GCTGGCGCGTGCCTTTTTCCCTGCACCACCTTCAGCCGTCCCAGTCATCGGGGAGAGCACCATCGTGTCTGGGGC
CTGCTGCCGCTTCAGCCCCCAGTGCGGAGGCTGGTCCGCTTCTGGGGGTCTACTCCTTGGCCCTCTTACCAC
GACCATCTTCGCCAAGCGGGGCAGGTGGTGACCGGCAATCCACGCCACACTTCCTGTCCGTGTGCCGCCCCAA
CTACACGGCCCTGGGCTGCCTGCCACCTTCTCCGGATCGGCCAGGTCCCGACCGCTTTGTCACTGACCAGGGTGC
CTGCGCTGGCAGTCCCAGCCTCGTGGCCGCCGCGCGCCGCGCCTTCCCCTGCAAGGATGCGGCCCTCTGCGCCTA
CGCGGTACACTACACAGCGATGTACGTGACTCTCGTGTTCGCGTGAAGGGTCCCGCCTGGTCAAACCTCGCT
CTGCTGGCCTTGCTGTGCCCGGCCTTCTGGTGGGCGTGGTCCGCGTGGCCGAGTACCGAAACCACTGGTTCGGA
CGTGTGGCTGGCTTCTGACAGGGGCGGCCATCGCCACCTTTTGGTACCTGCGTTGTGCATAACTTTAGAG
CCGGCCACCCTCTGGCCGAAGGCTCTCTCCCTGGGAGGACCTGGGCCAAGCCCCACCATGGATAGCCCCCTCGA
AAAGAACCCGAGGTCTGCAGGCCGCAATTCGACACCGGCACGGCTCACCCCATCCAAGTCGAGAAGTGCGCCCGC
CGTGGCCACCTGATCCCCAGCTGTGTCTCTCCAGGGCCCCAGCCATGTGTTGCTCGCCCCGTGTGCCCGTCTCT
CGATTGAGGTCTGAGCCGACGCCCTTGCCCCCTGCCCTACCCCTGCCAGCGCCACCCCCAGCCAGGGCCCCCTCG
CCTTCTCTCCCTGGACCTGGGGGGCCAGGCGGGGGTGGTGGACGTGGCCGGAAGCTGCTGCTGCCACGCCCCCTG
CTGCGGGACCTGTACACCCTGAGTGGACTCTATCCCTCCCCCTTCCACCGGGACAACCTCAGCCCTTACCTGTTT
GCCAGCCGTGACCACCTGCTGTGAGGCCCGACCAACCAACCAAGAATCTGCCCAGTCCCCACTTCTTCCCTGCCAC
GCGTGTGTGTGCGTGTGCCACGTGAGTGCCAAAGTCCCCTGCCCCCAAGCCAGCCAGACCCAGACATTAGAAGA
TGGCTAGAAGGACATTTAGGAGACATCTGCCTCTCTGGCCCTCTGAGATATCCCGATGGGCACAAATGGAAGGTG
CGCACTTGCCCCCTACTATTGCCCTTTAAGGGCCAAAGCTTGACCCCATTGGCCATTGCCTGGCTAATGAGAACC
CCTGGTTCTCAGAATTTTAACCAAAGGAGTTGGCTCCAACCAATGGGAGCCTTCCCCTCACTTCTTAGAATCCT
CCTGCAAGAGGGCAACTCCAGCCAGTGTTCAGCGACTGAACAGCCAATAGGAGCCCTTGTTTTCCAGAATTTCTA
GAGTGGGTGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGA
GGTCATTGTTTGTCAATTGAGTCTTCTCTCAGAATCAGCGAGCCCAGCTGTAGGGTGGGGGGCAGGCTCCCCATG
GCAGGGTCCCTGGGGTACCCCTTTTCTCTCAGCCCCCTCCCTGTGTGCGGCCTCTCCACCTCTACCCACTCTCT
CCTAATCCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGTTTTTGGGGTTTCAGGGTGTGTGTCTCCCTTGCC
TGTGCCCAGGTTCATCCCAAACCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTTCTTCTTTTTCTTGGAAC
CTGCCCCGTCTTTCACACTGCCCCCATGCCTCAGCCTCATAACAGATGTGCCATCATGGGGGGCATGGGTGGAG
CAGAGGGGCTCCCTCACCCCGGGCAGGCAAAGGCAGTGGGTAGAGGAGGCACTGCCCCCTTCTGCCCCCTCC
TCATCTTTAATAAAGACCTGGCTTCTCATCTTTAATAAAGACCTGTTTGTAACAG

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FIGURE 5258

ACTTAGAGGCGCCTGGTCGGGAAGGGCCTGGTCAGCTGCGTCCGGCGGAGGCAGCTGCTGACCCAGCTGTGGACT
GTGCCGGGGGCGGGGACGGAGGGGCAGGAGCCCTGGGCTCCCCGTGGCGGGGGCTGTATC**ATG**GACCACCTCGG
GGCGTCCCTCTGGCCCCAGGTCGGCTCCCTTTGTCTCCTGCTCGCTGGGGCCGCTGGGCGCCCCCGCCTAACCT
CCCGGACCCCAAGTTCGAGAGCAAAGCGGCCTTGCTGGCGGGCCCGGGGGCCGAAGAGCTTCTGTGCTTACACGA
GCGGTTGGAGGACTTGGTGTGTTTCTGGGAGGAAGCGGCGAGCGCTGGGGTGGGCCCGGGCAACTACAGCTTCTC
CTACCAGCTCGAGGATGAGCCATGGAAGCTGTGTGCGCTGCACCAGGCTCCACGGCTCGTGGTGCGGTGCCTT
CTGGTGTTCGCTGCCTACAGCCGACACGTGAGCTTCGTGCCCCTAGAGTTGCGCGTCACAGCAGCCTCCGGCGC
TCCGCGATATCACCGTGTCTACATCAATGAAAGTAGTGCTCCTAGACGCCCCCGTGGGGCTGGTGGCGCGGTT
GGCTGACGAGAGCGGCCACGTAGTGTGCGCTGGCTCCCGCCGCTGAGACACCCATGACGTCTCACATCCGCTA
CGAGGTGGACGTCTCGGCCGGCAACGGCGCAGGGAGCGTACAGAGGGTGGAGATCCTGGAGGGCCGCACCGAGTG
TGTGCTGAGCAACCTGCGGGGCCGACGCGCTACACCTTCGCCGTCCGCGCGCGTATGGCTGAGCCGAGCTTCGG
CGGCTTCTGGAGCGCCTGGTTCGGAGCCTGTGTGCTGCTGACGCTAGCGACCTGGACCCCTCATCCTGACGCT
CTCCCTCATCCTCGTGGTTCATCCTGGTGTGCTGCTGACCGTGTCTGCGCTGCTCTCCACCGCCGGGCTCTGAAGCA
GAAGATCTGGCCTGGCATCCCGAGCCAGAGAGCGAGTTTGAAGGCCTCTTCACCACCCACAAGGGTAACCTCCA
GCTGTGGCTGTACCAGAATGATGGCTGCCTGTGGTGGAGCCCCTGACCCCTTCACGGAGGACCCACCTGCTTC
CCTGGAAGTCCTCTCAGAGCGCTGCTGGGGGACGATGCAGGCAGTGGAGCCGGGGACAGATGATGAGGGCCCCCT
GCTGGAGCCAGTGGGCAGTGAGCATGCCCAGGATACCTATCTGGTGTGCTGGACAAATGGTTGCTGCCCCGGAACCC
GCCAGTGAGGACCTCCAGGGCCTGGTGGCAGTGTGGACATAGTGGCCATGGATGAAGGCTCAGAAGCATCCTC
CTGCTCATCTGCTTTGGCCTCGAAGCCCAGCCCAGAGGGAGCCTCTGCTGCCAGCTTTGAGTACACTATCCTGGA
CCCCAGCTCCAGCTCTTGCGTCCATGGACACTGTGCCCTGAGCTGCCCCCTACCCACCCACCTAAAGTACCT
GTACCTTGTGGTATCTGACTCTGGCATCTCAACTGACTACAGCTCAGGGGACTCCAGGGAGCCCCAAGGGGGCTT
ATCCGATGGCCCCTACTCCAACCCTTATGAGAACAGCCTTATCCCAGCCGCTGAGCCTCTGCCCCCAGCTATGT
GGCTTGCTCT**TAG**GACACCAGGCTGCAGATGATCAGGGATCCAATATGACTCAGAGAACCAGTGCAGACTCAAGA
CTTATGGAACAGGGATGGCGAGGCCTCTCTCAGGAGCAGGGGCATTGCTGATTTTGTCTGCCCAATCCATCCTGC
TCAGGAAACCACAACCTTGCAGTATTTTTAAATATGTATAGTTTTTTTG

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FIGURE 5259

MDHLGASLWPQVGSCLLLAGAAWAPPPNLPDPKFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPG
NYSFSYQLEDEPWKLCRLHQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVG
LVARLADESGHVLRWLPPPETPMTSHIRYEVDVSAGNGAGSVQRVEILEGRTECVLSNLRGRTRYTFAVRARM
EPSFGGFWSAWSEPVSLLTPSDLDPLILTSLILVVILVLLTVLALLSHRRALKQKIWPGIPSESEFEGLEFTTH
KGNFQLWLYQNDGCLWWSPTFTEDPPASLEVLSERCWGTMQAVEPGTDDEGPLLEPVGSEHAQDTYLVLDKWL
LPRNPPSEDLPGPGGSDIVAMDEGSEASSCSSALASKPSPEGASAAFEYITLDPSSQLLRPWTLCPPELPPTPP
HLKYLYLVSDSGISTDYSSGDSQGAQGGLSDGPYSNPYENSLIPAAEPLPPSYVACS

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FIGURE 5260

ATTTTTCAGAGCCCTAGGAATCCGAGCTGACGGATCCCTGACAGGGGCGACTGACTCCTAGTTATCCCCCTAACC
CCTAGGGGCCTTCAGCCCCAACCCCATCATGACATCTCCTCTGTGCAGGGCGGCCTCCGCCAACGCCCTGCCTCC
TCAGGACCAGGCTTCGACGCCCTCTTCCAGGGTCAAGGGCAGGGAGGCTTCGGGCAAACCCAGCCACCTCCGAGG
CAAGGGCACAGCCCAGGCGTGGACCCCAGGCCGTTCCAAGGGAGGATCCTTCCACAGAGGTGCAGGGAAGCCTC
TGTGCACTCTCAGGTGGCTGAGTTACATAAAAAGATACAACCTGTTAGAGGGTGACCGGAAGGCTTTTTTTGAGAG
CTCTCAGTGGAACATCAAGAAGAACCAGGAGACCATCAGTCAGCTCCGCAAGGAGACTAAGGCACTGGAACATAA
GCTGCTGGACCTGCTCAAGGGAGATGAGAAAGTGGTCCAGGCAGTGATTTCGCGAATGGAAGTGGGAGAAGCCATA
CCTGAAGAACAGGACAGGACAGGCCCTGGAGCACCTAGACCACCGGCTGAGGGAGAAGGTGAAGCAGCAGAACGC
CCTGCGGCACCAAGTGGTGTGTCGGCAGAGGCGGCTGGAGGAGCTCCAGCTGCAGCACAGCCTGCGCCTTCTGGA
GATGGCGGAGGCGCAAAACAGACACACGGAGGTGGCCAAGACCATGCGGAACCTGGAGAACCGCCTGGAGAAGGC
CCAGATGAAGGCGCAGGAGGCCGAGCACATTACCAGCGTGACCTGCAGCTCAAGGCCTATCTAATGGACGAGAG
CCTCAACTTGGAGAACCGGCTGGACTCCATGGAGGCTGAGGTGGTGAGGACCAAACATGAGCTGGAGGCACTGCA
CGTGGTGAACCAAGAGGCCCTCAATGCCCAGGACATTGCCAAGAACCAGCTGCAGTACCTAGAGGAGACCTTGGT
TCGAGAGCGCAAGAAGCGGGAACGCTACATAAGTGAGTGCAAGAAGCGCGCCGAGGAGAAGAACTGGAGAACGA
GCGCATGGAGCGCAAGACCCACCGCAGCACCTGCTGCTACAGTCCGACGACACCATCCAGGACAGCCTGCATGC
CAAGGAGGAGGAGCTGCGGCAGCGCTGGAGCATGTACCAGATGGAGGTGATCTTTGGCAAGGTCAAGGACGCCAC
TGGCACTGACGAGACGCACTCGTTGGTGCGGCGGTTCTGGCCCAGGGCGACACCTTCGCGCAGTTGGAGACGCT
CAAGAGCGAGAACGAGCAGACGTTGGTGAGGCTGAAGCAGGAGAAGCAACAACCTGCAGCGGGAGCTGGAAGACCT
CAAGTACTCGGGGGAGGCCACGCTGGTGAGCCAGCAGAACTGCAAGCCGAGGCGCAGGAGCGTCTCAAGAAGGA
GGAGCGGCGGCACGCCGAGGCCAAGGACCAGCTGGAGCGCGCCTTGGGGCGATGCAAGTGGCCAAGGACAGCCT
GGAGCACCTGGCCAGCAAGCTGATCCACATCACTGTGGAGGACGGCCGCTTCGCGGGAAAGGAGCTGGATCCCCA
GGCAGATAACTATGTGCCAAACCTGCTGGGCCTCGTGGAGGAAAAGCTGCTGAAACTGCAGGCGCAGCTCCAGGG
CCACGACGTGCAGGAGATGCTGTGCCACATCGCTAACCGCGAGTTCTCGCCAGCTTAGAGGGAAGGCTGCCCCGA
ATACAACACCCGCATCGCCCTGCCCTTGCCACTTCCAAGGACAAGTTTTTTGACGAAGAGAGTGAGGAGGAGGA
CAACGAGGTAGTGACCCGCGCATCACTCAAGATCCGTTCCAGAAATTAATCGAAAGTCACAAGAAGCACCGTCG
CTCTCGGAGGTCCTAGACTCGTCTGACACCCACCAGGCGGCCCTTCGGAGCCCCCGATCCCTCCGGGTCTAG
CGCAGGCCCCACGGGGCCCCCTTCAGGGGCTGAACGCGGCCCGGACCGGGAACGGAGGCGGCCAGCGGCGCCGGA
GGGGAGGAAGGGGCCGGGCCAGACGTTCCACAGTAAATCTCCCCAGCTGGGTCCGCCCCGGCCTCAGAGTTGCG
CAATAAATGTTACCGACCATG

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FIGURE 5261

GCTGCGCCGCCATTAAGAGCTAGCCCTCAGAACTATCCTCTCTAAGGTTTCACAGTCCTGCCCAAGATGGCCGTC
TCGGCTCTGGCACCGCCCCACTCCTGCCTCTCCCAACATGGCGACCCCTGAGTCTCCGTTCCCGGTGCGGAACGT
ACGACCGGAAGTGACGGGGTCCAGAAATTTCCGCTTTCTTTCTGCAGCAGGAACCGCGGCTGCTGGACAAGAGGG
GTGCGGTGGATACTGACCTTTGCTCCGGCCTCGTCTGAAGACACAGCGCATCTCCCCGCTGTAGGCTTCTCTCC
ACAGAACCCGTTTCGGGCCTCAGAGCGTCTGGTGAGATGCTGTTGCCGCTGCTGCTGCTGCTACCCATGTGCTGG
GCCGTGGAGGTCAAGAGGCCCCGGGGCGTCTCCCTCACCAATCATCACTTCTACGATGAGTCCAAGCCTTTTACC
TGCTTGACGGTTCGGCCACCATCCATTTGATCAGGTCAACGATGACTATTGCGACTGCAAAGATGGCTCTGAC
GAGCCAGGCACGGCTGCCTGTCCTAATGGCAGCTTCCACTGCACCAACACTGGCTATAAGCCCCCTGTATATCCCC
TCCAACCGGGTCAACGATGGTGTGTTGTGACTGCTGCGATGGAACAGACGAGTACAACAGCGGCGTCATCTGTGAG
AACACCTCAGAGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCAGCAGATGGCCGAGGTACCCGCGAAGGGTTCC
GTCTGAAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATTGAGCTACAGG
CTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGAGAGAG
AGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCCCAACAGGAGCAGGAGCTGG
CGGCTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGCTGCAGACTACCCGG
AGCTGGACACAGATGGGGATGGGGCGTTGTGAGAAGCGGAAGCTCAGGCCCTCCTCAGTGGGGACACACAGACAG
ACGCCACCTCTTTCTACGACCGCGTCTGGGCGGCCATCAGGGACAAGTACCGGTCCGAGGCACTGCCACCGACC
TTCCAGCACCTTCTGCCCTGACTTGACGGAGCCCAAGGAGGAGCAGCCGCCAGTGCCCTCGTCGCCCACAGAGG
AGGAGGAGGAGGAGGAGGAGGAGGAAGAAGAGGCTGAAGAAGAGGAGGAGGAGGAGGATTCCGAGGTGCAGG
GGGAGCAGCCCAAGGAGGCCCCACCGCCACTGTCACCCCGCAGCCGGCCAGCCCTGCTGAGGAAGACAAAATGC
CGCCCTACGACGAGCAGACGCAGGCCCTTCATCGATGCTGCCAGGAGGCCCGCAACAAGTTCGAGGAGGCCGAGC
GGTCGCTGAAGGACATGGAGGAGTCCATCAGGAACCTGGAGCAAGAGATTTCTTTTGACTTTGGCCCCAACGGGG
AGTTTGCTTACCTGTACAGCCAGTGCTACGAGCTCACCACCAACGAATACGTCTACCGCCTCTGCCCTTCAAGC
TTGTCTCGCAGAAACCCAACTCGGGGGCTCTCCACCAGCCTTGGCACCTGGGGCTCATGGATTGGCCCCGACC
ACGACAAGTTTCAAGTATGAAGTATGAGCAAGGCACGGGCTGCTGGCAGGGCCCCAACCGCTCCACCACCGTGC
GCCTCCTGTGCGGGAAAGAGACCATGGTGACCAGCACCACAGAGCCAGTCGCTGCGAGTACCTCATGGAGCTGA
TGACGCCAGCCGCCTGCCCCGAGCCACCGCCTGAAGCACCACCGAAGACGACCATGACGAGCTCTAGCTGGATG
GGCGCAGAGGTGGGCGGGGAGGTGGAGTCTCGTGGCCTGCCCCAGCAAGGGGAGGCGGCGGGCCCTGAGGAAGA
TGGACCCACATGGCCACTCTATCAACCTGTGTCCCCATGTTCCCTGCTTTTTTTGTTTTTTTGTAGGTGGAG
TCTCACTCTTTGGCCAGGCTGGAGTGCAGTGATGCGACCTCAGCTGACTGCAACCTCTACCTCCCGGGTTCAAA
CAATTGTCTTGTCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCATGCCTGGCTAATTTTAGTAG
AGATGGGGTTTTACCATGTTGGCCTGGATGGTCTCGAAGTCTGACCTCAGATGATCCACCTGCCTTGGCCTCCC
AAAGTGCTGGGATTACAGGCATGAGCCACCACACCCGGCCATCTCCTGCCTTTTTTTTTTTTGGATGGAGTTTAC
TCTTGTGCGGAGATCATGCTACTGCACTCTCCAGCCTGGGCTACAGAGTGAGACTCTCAAAAAAAAAAATAAT
AATAATAAGAGAAAATAGACAAGGTCTCCAGGCTGGTCAACTCCTGGCCTCAAATGATCCTCCCACCTCAGCCTC
CCAAGCAGCCGGGACTACAGGCAAACATCACCATGTCCAGCTGTCCCCAGCTTTCTAATCTGGTCTTTCTCTTGC
CCCAGAACCTCAAGAAGGCATGAAGCCAGCCCCCTGCAGTGCCGTCCACCGCCCCCTCTGGGCTGCCTGTGGCTC
TGTTGCCCTCCTCTGTGGCGGCAGGACCTTTGTGGGGCTTCGTGCCCTGCTCTGGGGCCAGGCGGGGCTGGTCC
ACATTCCCAGGCCCCAACAGCCTTCAAAGATGGGTAAAGGAGCTTGCCCTCCTGGGCCCCACCTTGGTGACT
CGCCCCACCACCCCAAGCCCTGTCCCTGCCACCCCTCCTAGTGGGGACTAGTGAATGACTTGACCTGTGACCTCA
ATACAATAAATGTGATCCCCACCC

FIGURE 5262

[illegible]

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FIGURE 5263

MGRRKSKRKPPPKKMTGTLETQFTCPFCNHEKSCDVKMDRARNTGVISCTVCLEEFQTPITYLSEPVDVYSDWI
DACEAANQ

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FIGURE 5264

TTTCTGCCCCGTGGACACCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTC**ATGT**CTAAGTCAGAGT
CTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGA
GGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGG
GCTTTGGGTTTGTACGTATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATG
GAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAAAA
AGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAA
TTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAACTTTGACGACC
ATGACTCCGTGGATAAGACTGTCATTCAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCC
TGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGTTCTGGAACTTTGGTGGTGGTC
GTGGAGGTGGTTTTCGGTGGGAATGACAACCTTCGGTCGTGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGTGGCA
GCCATGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCAATTTTGGAG
GTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATT
TTGGAGGCAGAAGCTCTGGCCCCATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAAACCAAGTGGCTATGG
CGGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAAT**TAG**GAAACAAAGCTTAGCAGGAGAGGAG
AGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAATAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGCC
TAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAAACTCGAGGACTGTATTTGTG
ACTAATTGTATAACAGGTTATTTTAGTTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAACGT
AGATTTCTTTTTGCACCCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGATGCTGAATAAATGTCTTTT
TTTT

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FIGURE 5265

MSKSESPKEPEQLRKLFIGGLSFETTDESLRSHFEQWGLTDCVVMRDPNTKRSRGFGFVITYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKTVIQYHTVNGHNCEVRKALSKQEMASASSSQGRSGSGNFGGGRGGGFGGNDNFGRGGNFSGR
GGFGGSHGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPR
NQVAMAVPAAAVAMAVAEDFN

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FIGURE 5266

CTCTTTCCTTCAGTGTGCCACTGAAGATCCTGGTGTGCCATGGGCGCCGCCCCGCCCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTCGCATTTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTCTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCTT
CTGAAGCCCTGGAGGCTGCCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTCATCCGCATCAACAAGATGTCGTCCTGTGCTGGGGCTGACAGGCTCC
AAACAGGAATGCGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCGTGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCCTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
CTCTGGACAAGTGGTGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTCACCAATAAA
TTCTACTT

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FIGURE 5267

CTCTTGCGGAGACGCGCGCTCGGGGTTTAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCAACGGCTTCCAAGCAACCAACTTCGGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCCCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCGCTA
CCTTGTGCAGCACAAATGGTGGACGTATTGGTGACCACAGCTGGCGGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCCCTACAAGAACCCGGGCCTGGTCCTGGACATCGTTGAGGACCTGAGGCTCATCAACAC
ACAGGCCATCTTTGCCAAGTGCAC'TGGGATGATCATTCTGGGCGGGGGCGTGGTCAAGCACCAATTGCCAATGC
CAACCTCATGCGGAACGGGGCCGACTACGCTGTTTACATCAACACAGCCCAGGAGTTTGATGGCTCTGACTCAGG
TGCCCGACCAGACGAGGCTGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGC
CTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGA
GGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCCCTCCC
TACTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 5268

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFGRAVQQVNAMIEKKLE
PLSQDEQHADLTQSRRLTSCITIFLGYSNLISSGIRETIRYLVQHNMVDVLVTTAGGVEEDLIKCLAPTYLGE
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVMEQNTGKWTTPSKMIARLGKEINNPESVYYWAQ
KNHIPVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEDLRLINTQAIFAKCTGMIILGGGVVKHHIANANLMRNGA
DYAVYINTAQEFDGSDSGARPDEAVSWGKIRVDAQPVKVYADASLVFP LLVAETFAQKMDAFMHEKNED

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FIGURE 5269

CTCTTGCGGAGACGCGCGCTCGGGGTTTAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCAACGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCGCTA
CCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCATTCTGGACCAGATGGTGTATGGA
GCAGAACACAGAGGGTGTAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCTTACAAGAACCCGGGCCTGGTCCTGGACATCGTTGAGGCCCAGGAGTTTGATGGCTC
TGAATCAGGTGCCCCGACCAGACGAGGCTGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTA
TGCTGACGCCTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGA
GAAGAACGAGGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAG
CCCTCCCTACTTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 5270

CTCTTGCGGAGACGCGCGCTCGGGGTTTAAACGCGTTTCTGGGCCGCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCGGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCAACGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCGCCCC
ACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTGCTA
CCTTGTCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCATTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCTTACAAGAACCCGGGCCTGGTCTTGACATCGTTGAGGGTGCCCGACCAGACGAGGC
TGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGCCTCCCTGGTCTTCCCCCT
GCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGAGGACTTGAGCGGCTGCGGT
CCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCTCCCTACTTTTTGGTCAGCTAC
GTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5271

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFGRAVQQVNAMIEKKLE
PLSQDEQDQHADLTQSRRLTSCTIFLGYSNLISGIRETIRYLVQHNMDVLVTTAGGVEEDLIKCLAPTYLGE
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVMEQNTGKWKTPSKMIARLGKEINNPESVYYWAQ
KNHIPVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFA
QKMDAFMHEKNED

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FIGURE 5272

CCAGCAGGGAGCTGGGAGCTGGGGGAAACGACGCCAGGAAAGCTATCGCGCCAGAGAGGGCGACGGGGGCTCGGG
AAGCCTGACAGGGCTTTTTCGCACAGCTGCCGGCTGGCTGCTACCCGCCCCGCGCCAGCCCCGAGAACGCGCGAC
CAGGCACCCAGTCCGGTCACCGCAGCGGAGAGCTCGCCGCTCGCTGCAGCGAGGCCCCGGAGCGGCCCCGCAGGGA
CCCTCCCCAGACCGCTGGGCCGCCCCGGATGTGCTAAATGGAACAGCCCTTCTACCACGACGACTCATACAC
AGCTACGGGATACGGCCGGGCCCCCTGGTGGCCTCTCTCTACACGACTACAACTCCTGAAACCGAGCCTGGCGGT
CAACCTGGCCGACCCCTACCGGAGTCTCAAAGCGCCTGGGGCTCGCGGACCCGGCCCCAGAGGGCGCGGTGGCGG
CAGCTACTTTTCTGGTCAGGGCTCGGACACCGGCGCGTCTCTCAAGCTCGCCTCTTCGGAGCTGGAACGCCTGAT
TGTCCCCAACAGCAACGGCGTGATCAGACGACGCCTACACCCCGGGACAGTACTTTTACCCCGCGGGGGTGG
CAGCGGTGGAGGTGCAGGGGGCGCAGGGGGCGGCGTCACCGAGGAGCAGGAGGGCTTCGCCGACGGCTTTGTCAA
AGCCCTGGACGATCTGCACAAGATGAACCACGTGACACCCCCAACGTGTCCCTGGGCGCTACCGGGGGGCCCCC
GGCTGGGGCCCGGGGGCGTCTACGCCGGCCCCGGAGCCACCTCCCGTTTACACCAACCTCAGCAGCTACTCCCCAGC
CTCTGCGTCTCGGGAGGCGCCGGGGCTGCCGTGCGGACCGGGAGCTCGTACCCGACGACCACCATCAGCTACCT
CCCACACGCGCCGCCCTTCGCCGGTGGCCACCCGGCGCAGCTGGGCTTGGGCCGCGGCGCCTCCACCTTCAAGGA
GGAACCGCAGACCGTGCCGGAGGCGCGCAGCCGGGACGCCACGCCGCCGGTGTCCCCATCAACATGGAAGACCA
AGAGCGCATCAAAGTGGAGCGCAAGCGGCTGCGGAACCGGCTGGCGGCCACCAAGTGCCGGAAGCGGAAGCTGGA
GCGCATCGCGCGCTGGAGGACAAGGTGAAGACGCTCAAGGCCGAGAACGCGGGGCTGTGAGTACCGCCGGCCT
CCTCCGGGAGCAGGTGGCCCAGCTCAAACAGAAGGTCATGACCCACGTCAGCAACGGCTGTCAGCTGCTGCTTGG
GGTCAAGGGACACGCCTTCTGAACGTCCCCTGCCCTTTACGGACACCCCTCGCTTGGACGGCTGGGCACACGC
CTCCCACTGGGGTCCAGGGAGCAGGCGGTGGGCACCCACCTGGGACCTAGGGGCGCCGCAAACCACACTGGACT
CCGGCCCCCTACCTTGCGCCAGTCCTTCCACCTCGACGTTTACAAGCCCCCTTCCACTTTTTTTTTGTATGT
TTTTTTCTGCTGGAAACAGACTCGATTCAATATGAATATAATATATTTGTGTATTTAACAGGGAGGGGAAGAGG
GGGCGATCGCGGCGGAGCTGGCCCCGCCGCTGGTACTCAAGCCCGCGGGGACATTGGGAAGGGGACCCCCGCC
CCTGCCCTCCCCTCTCTGCACCGTACTGTGGAAAAGAAACACGCACTTAGTCTCTAAAGAGTTTATTTTAAGACG
TGTTTGTGTTTGTGTGTTTGTCTTTTTATTGAATCTATTTAAGTAAAAAAAAAATTGGTTCCTTTATTAA

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FIGURE 5273

MCTKMEQPFYHDDSYTATGYGRAPGGLSLHDYKLLKPSLAVNLADPYRSLKAPGARGPGPEGGGGGSYFSGQGSD
TGASLKLASSELERLIVPNSNGVITTTPTPPGQYFYPRGGGSGGGAGGAGGGVTEEQEGFADGFVKALDDLHKMN
HVTTPNVSLGATGGPPAGPGGVYAGPEPPPVYTNLSSYSPASASSGGAGAAVGTGSSYPTTTISYLPHAPPFAGG
HPAQLGLGRGASTFKEEPQTVPEARSRDATPPVSPINMEDQERIKVERKRLRNRLAATKCRKRKLERIARLEDKV
KTLKAENAGLSSTAGLLREQVAQLKQKVMTHVSNQCQLLLGVKGHAF

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FIGURE 5274

CGCGGCCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGCCTTTGCCCCA
CGCAGCTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAGCCAGCCCCTGACTTCAAGGCCACAGCGGTGG
TTGATGGCGCCTTCAAAGAGGTGAAGCTGTCGGACTACAAAGGGAAGTACGTGGTCCTCTTTTTCTACCCTCTGG
ACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTTACGCAACCGTGCAGAGGACTTCCGCAAGCTGGGCTGTG
AAGTGCTGGGCGTCTCGGTGGACTCTCAGTTCACCCACCTGGCTTGGATCAACACCCCCCGGAAAGAGGGAGGCT
TGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGCTGAAAACAG
ATGAGGGCATTGCCTACAGGGGCCTCTTTATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTTAATGATT
TGCCTGTGGGACGCTCCGTGGATGAGGCTCTGCGGCTGGTCCAGGCCTTCCAGTACACAGACGAGCATGGGGAAG
TTTGTCCCGCTGGCTGGAAGCCTGGCAGTGACACGATTAAGCCCAACGTGGATGACAGCAAGGAATATTTCTCCA
AACACAATTAGGCTGGCTAACGGATAGTGAGCTTGTGCCCCCTGCCTAGGTGCCTGTGCTGGGTGTCCACCTGTGC
CCCCACCTGGGTGCCCTATGCTGACCCAGGAAAGGCCAGACCTGCCCTCCAACTCCACAGTATGGGACCCTGG
AGGGCTAGGCCAAGGCCTTCTCATGCCTCCACCTAGAAGCTGAATAGTGACGCCCTCCCCAAGCCCACCCAGCC
GCACACAGGCCTAGAGGTAACCAATAAAGTATTAGGG

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FIGURE 5275

MASGNARIGKPAPDFKATAVVDGAFKEVKLSDYKGKYVVLFFYP LDFTFVCPTEIIAFSNRAEDFRKLGCEVLGV
SVDSQFTHLAWINTPRKEGGLGPLNIPLLADVTRRLSEYGV LKTDEGIAYRGLFIIDGKGVLRQITVNDLPVGR
SVDEALRLVQAFQYTDEHGEVCPAGWKPGSDTIKPNVDDSKEYFSKHN

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FIGURE 5276

AAAAGGCTTCGCGGCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGC
CTTTGCCACGCAGCTTTTCAATCATGGCCTCCGGTAACGCGCGCATCGGAAAGCCAGCCCCTGACTTCAAGGCCA
CAGCGGTGGTTGATGGCGCCTTCAAAGAGGTGAAGCTGTCGGACTACAAAGGGAAGTACGTGGTCCCTCTTTTCT
ACCCTCTGGACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTCAGCAACCGTGCAGAGGACTTCCGCAAGC
TGGGCTGTGAAGTGTGCGGCTCTCGGTGGACTCTCAGTTCACCCACCTGGCTTGGATCAACACCCCCCGGAAAG
AGGGAGGCTTGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGC
TGAAAACAGATGAGGGCATTGCCTACAGGTACTGTGGGACCCCTAGCCCGGCTCAGGGAGCGCCCTGCCCCCAT
TCCTGTGATGCTGGGACCACTCCTGTACAATGTCTTCTCTGCCCCAGCCCTGTGGCTAGCAGCGGGTGGTTGGT
AGTCCCTTCCTTGTCTCTGGCAGTGGGAGCTATCAGCTCCTCACTGGGAACCCTGATGTCTTCAGGGGCCTCTTT
ATCATCGATGGCAAGGTGTCCTTCGCCAGATCACTGTTAATGATTTGCCTGTGGGACGCTCCG

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FIGURE 5277

CCATGGCAGGTCGCTCCTGCAGTATTAGTTCTTGCAGCTGGTGGCGGCGGCTGAGGCGGCATCGATCTCAGCGAG
CTGGAGAGAGACAATACAGGCCGCTGTCGCCTGAGTTCGCCTGTGCCCGCGGTGTGCCGCAAGGAGCCTTGCGTC
CTGGGCGTCGATGAGGCGGGCAGGGGCCCCGTGCTGGGCCCCATGGTCTACGCCATCTGTTATTGTCCCCTGCCT
CGCCTGGCAGATCTGGAGGCGCTGAAAGTGGCAGACTCAAAGACCCTATTGGAGAGCGAGCGGGAAAGGCTGTTT
GCGAAATGGAGGACACGGACTTTGTTCGGCTGGGCGCTGGATGTGCTGTCTCCAAACCTCATCTCTACCAGCATG
CTTGGGCGGGTCAAATACAACCTGAACTCCCTGTACATGATACAGCCACTGGGCTTATACAGTATGCATTGGAC
CAGGGCGTGAACGTCACCCAGGTATTCGTGGACACCGTAGGGATGCCAGAGACATAACCAGGCGCAGCTGCAGCAA
AGTTTTCCCGGATTGAGGTGACGGTCAAGGCCAAAGCAGATGCCCTCTACCCGGTGGTTAGTGCTGCCAGCATC
TGTGCCAAGGTGGCCCGGGACCAGGCCGTGAAGAAATGGCAGTTCGTGGAGAACTGCAGGACTTGGATACTGAT
TATGGCTCAGGCTACCCCAATGATCCCAAGACAAAAGCGTGGTTGAAGGAGCACGTGGAGCCTGTGTTCCGGCTTC
CCCCAGTTTGTCCGGTTCAGCTGGCGCACGGCCCAGACCATCCTGGAGAAAGAGGCGGAAGATGTTATATGGGAG
GACTCAGCATCCGAGAATCAGGAGGGACTCAGGAAGATCACATCCTACTTCCTCAATGAAGGGTCCCAAGCCCGT
CCCCGTTCTTCCCACCGATATTCCTGGAACGCGGCCTGGAGTCAGCAACCAGCCTCTAGCAGCTGCCTCTACGC
GCTCTACCTGCTTCCCCAACCAGACATTAAAATTGTTTAAGGAG

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FIGURE 5278

MDLSELERDNTGRCRLSSPVPVAVCRKEPCVLGVDEAGRGPVLGPMVYAICYCPLPRLADLEALKVADSKTLLESE
RERLFAKMEDTDFVGWALDVLSPNLISTSM LGRVKYNLSLSHDTATGLIQYALDQGVNVTQVFVDTVGMPETYQ
AQLQQSFPGIEVTVKAKADALYPVVSAA SICAKVARDQAVKKWQFVEKLQDLDDTDYGS GYPNDPKTKAWLKEHVE
PVFGFPQFVRFSWRTAQTILEKEAEDVIWEDSASENQEGLRKITSYFLNEGSQARPRSSHRYFLER GLE SATSL

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FIGURE 5279

CTGGAAGGAGTCAATGGCGGATGGTCAGGTGGCGGAAC TGCTGCTCCGGCGGCTGGAGGCGTCTGATGGCGGCCTG
GACAGCGCCGAGTTGGCGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGGCGCCGTGAAGAGCCTTCAGGCG
CTGGGCGAGGTCATCGAGGCTGAAC TTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC
CGGGAGGGCAGCCATGAGGCCCGTGTGTTTCGAAGCATTCCCCAGAGGGCCTGGCCCCAGAGCGAGCTTATGCGA
CTGCCCAGTGGCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTGCGGTGGACAAGAGTGCGGCTGAC
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGGCGGCTCCAGCTGGTCCGGGGGGGA
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGAAGTCTGAAG
ACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG
ATCTCCAGTGGCTCTTGCGGGACCGGCCCTTCAAGCCCTACAACCTTCTTGCCCCACGGTGTCTCCCCGACAGC
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCCAGTTCGGACAGATCTTCTGGAGATGGGGTTCACCGAGATG
CCGACTGATAACTTCATTGAGAGCTCCTTCTGGAAC TTTGACGCCCTCTTCCAGCCCCAGCAGCACCAGCCCGT
GACCAGCACGACACCTTCTTCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC
AAGCGGACCCACTCTCAGGGCGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCCGAAA
AACCTACTGCGAACCACACCACATCAGCCAGCGCCCGTGCCTCTACCGCCTTGCCAGAGAAGGCCCTTCACT
CCGGTCAAGTACTTCTCCATCGACCGCGTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCCAC
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGGCGTTCTGCGGGAGTTCTTCACC
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCCAGCATGGAGGTGTTTCAGC
TACCACCAAGGCCTGAAGAAGTGGGTGGAGGTGCGAAACTCGGGGTCTTCCGTCCAGAGATGCTGCTGCCCATG
GGGCTTCCCGAGAAGTGTGCGGTCA TTGCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAAATATGGCATC
AACAAATATCCGGGAGCTGGTGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCTGTGCCGCCTGGAT
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCGTTGACATGGGCCACTCTAGGACAGGTCATCCTCCCCGAGT
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGTA TTTATGAGGCTCTGTGAGGCCAGCCCCCACC
TTCTCTTTCCACCTGTCCAGGACCAGAATCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTTGTCCT
GTGTGGTGTGTCTACTGTGAGGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGTT
GCCCCCA

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FIGURE 5280

MADGQVAELLRRLEASDGGLDSAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGEEIAREGS
HEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVDSEDEVQRRQLVRGGQAEK
LGEKERSELKRKLLAEVTLKTYWVSKGSFAFSTSISKQETELSPEMISSGSRDRPFKPYNFLAHGVLDPDSGHLH
PLLKVR SQFRQIFLEMGFTEMPD NFI ESSFWNFDALFQPQQHPARDQHDTFFLRDPAEALQLPMDYVQVRKRTH
SQGGYGSQGYKYNWKLDEARKNLLRTHHTTSASARALYRLAQKKPFTPVKYFSIDRVFRNETLDATHLAEFHQIEG
VVADHGLTLGHLMGVLRFFTKLGITQLRFKPAYNPYTEPSMEVFSYHQGLKKWVEVGNSGVFRPEMLLPMGLPE
NVS VIAWGLSLERPTMIKYGINNIRELVGHKVNLMQVYDSPLCRLDAEP RPPFTQ EAA

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FIGURE 5281

GTCCGTACTGCAGAGCCGCTGCCGGAGGGTCGTTTTAAAGGGCCCGCGCGTTGCCGCCCCCTCGGCCCCGCC**ATGC**
TGCTATCCGTGCCGCTGCTGCTCGGCCTCCTCGGCCTGGCCGTCGCCGAGCCTGCCGTCTACTTCAAGGAGCAGT
TTCTGGACGGAGACGGGTGGACTTCCCGCTGGATCGAATCCAAACACAAGTCAGATTTTGGCAAATTCGTTCTCA
GTTCCGGCAAGTTCTACGGTGACGAGGAGAAAGATAAAGGTTTGCAGACAAGCCAGGATGCACGCTTTTATGCTC
TGTCGGCCAGTTTCGAGCCTTTCAGCAACAAAGGCCAGACGCTGGTGGTGCAGTTACCGGTGAAACATGAGCAGA
ACATCGACTGTGGGGGCGGCTATGTGAAGCTGTTTCCTAATAGTTTGGACCAGACAGACATGCACGGAGACTCAG
AATACAACATCATGTTTGGTCCCGACATCTGTGGCCCTGGCACCAAGAAGGTTTCATGTCTCTTCAACTACAAGG
GCAAGAACGTGCTGATCAACAAGGACATCCGTTGCAAGGATGATGAGTTTACACACCTGTACACACTGATTGTGC
GGCCAGACAACACCTATGAGGTGAAGATTGACAACAGCCAGGTGGAGTCCGGCTCCTTGGAAGACGATTGGGACT
TCCTGCCACCCAGAAGATAAAGGATCCTGATGCTTCAAAACCGGAAGACTGGGATGAGCGGGCCAAGATCGATG
ATCCCACAGACTCCAAGCCTGAGGACTGGGACAAGCCCCGAGCATATCCCTGACCCTGATGCTAAGAAGCCCCGAGG
ACTGGGATGAAGAGATGGACGGAGAGTGGGAACCCCCAGTGATTGAGAACCCTGAGTACAAGGGTGAGTGGAAGC
CCCGGCAGATCGACAACCCAGATTACAAGGGCACTTGGATCCACCCAGAAATTGACAACCCCGAGTATTCTCCCG
ATCCCAGTATCTATGCCTAIGATAACTTTGGCGTGCTGGGCCTGGACCTCTGGCAGGTCAAGTCTGGCACCATCT
TTGACAACTTCCTCATCACCAACGATGAGGCATACGCTGAGGAGTTTGGCAACGAGACGTGGGGCGTAACAAAGG
CAGCAGAGAAACAAATGAAGGACAAACAGGACGAGGAGCAGAGGCTTAAGGAGGAGGAAGAAGACAAGAAACGCA
AAGAGGAGGAGGAGGAGGACAGGAGCAAGGAGGATGATGAGGACAAAGATGAGGATGAGGAGGATGAGGAGGACAAGG
AGGAAGATGAGGAGGAAGATGTCCCCGGCCAGGCCAAGGACGAGCTG**TAG**AGAGGCCTGCCTCCAGGGCTGGACT
GAGGCCTGAGCGCTCCTGCCGCAGAGCTTGCCGCGCCAAATAATGTCTCTGTGAGACTCGAGAACTTTCATTTTT
TTCCAGGCTGGTTCGGATTTGGGGTGGATTTTGGTTTTGTTCCTCCTCCACTCTCCCCACCCCTCCCCGCC
CTTTTTTTTTTTTTTTTTTAACTGGTATTTTATCTTTGATTCTCCTTCAGCCCTCACCCCTGGTTCTCATCTTTC
TTGATCAACATCTTTTCTTGCTCTGTCCCCTTCTCTCATCTCTTAGCTCCCCTCCAACCTGGGGGGCAGTGGTG
TGGAGAAGCCACAGGCCTGAGATTTTCATCTGCTCTCCTTCTGAGCCCAGAGGAGGGCAGCAGAAGGGGGTGGT
GTCTCCAACCCCCCAGCACTGAGGAAGAACGGGGCTCTTCTCATTTTACCCCTCCCTTTCTCCCTGCCCCCAGG
ACTGGGCCACTTCTGGGTGGGGCAGTGGGTCCAGATTGGCTCACACTGAGAATGTAAGAACTACAAACAAAT
TCTATTAAATTAAATTTTGTGTCTC

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FIGURE 5282

MLLSVPLLLGLLGLAVAEPVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSSGKFYGDEEKDKGLQTSQDARFY
ALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPNSLDQTMHGDSEYNIMFGPDICGPGTKKVHVIFNY
KGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDASKPEDWDERAKI
DDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWIHPEIDNPEYS
PDPsiYAYDNFGVLGLDLWQVKSgtIFDNFLITNDEAYAEefGNETWGVTKAAEKQMKDKQDEEQRLKEEEEDKK
RKEEEEAEDKEDDEDKDEDEEDEDKEDEEEDVPGQAKDEL

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FIGURE 5283

CCGGAAGTGGTCGGCGCGCGGCGCGCGCCTGGGCGCTAAGATGGCGGCGGCGTGAGTTGCATGTTGTGTGAG
GATCCCGGGGCGCGCGCTCGCTCGGGCCCCGCCATGGCCGTCACCATCACGCTCAAAACGCTGCAGCAGCAGAC
CTTCAAGATCCGCATGGAGCCTGACGAGACGGTGAAGGTGCTAAAGGAGAAGATAGAAGCTGAGAAGGGTCGTGA
TGCCTTCCCCGTGGCTGGACAGAACTCATCTATGCCGGCAAGATCTTGAGTGACGATGTCCCTATCAGGGACTA
TCGCATCGATGAGAAGAACTTTGTGGTCGTCATGGTGACCAAGACCAAAGCCGGCCAGGGTACCTCAGCACCCCC
AGAGGCCTCACCCACAGCTGCCCCAGAGTCCTCTACATCCTTCCCGCCTGCCCCACCTCAGGCATGTCCCATCC
CCCACCTGCCGCCAGAGAGGACAAGAGCCCATCAGAGGAATCCGCCCCACGACGTCCCCAGAGTCTGTGTTCAGG
CTCTGTTCCCTCTTCAGGTAGCAGCGGGCGAGAGGAAGACGCGGCCTCCACGCTAGTGACGGGCTCTGAGTATGA
GACGATGCTGACGGAGATCATGTCCATGGGCTATGAGCGAGAGCGGGTCGTGGCCGCCCTGAGAGCCAGCTACAA
CAACCCCCACCGAGCCGTGGAGTATCTGCTCACGGGAATTCTGGGAGCCCCGAGCCGGAACACGGTTCTGTCCA
GGAGAGCCAGGTATCGGAGCAGCCGGCCACGGAAGCAGCAGGAGAGAACCCCCCTGGAGTTCCTGCGGGACCAGCC
CCAGTTCCAGAACATGCGGCAGGTGATTCAGCAGAACCCTGCGCTGCTGCCCCCCTGCTCCAGCAGCTGGGCCA
GGAGAACCCTCAGCTTTTACAGCAAATCAGCCGGCACAGGAGCAGTTCATCCAGATGCTGAACGAGCCCCCTGG
GGAGCTGGCGGACATCTCAGATGTGGAGGGGGAGGTGGGCGCCATAGGAGAGGAGGCCCCGAGATGAACTACAT
CCAGGTGACGCCGCAGGAGAAAGAAGCTATAGAGAGGTTGAAGGCCCTGGGCTTCCCAGAGAGCCTGGTCATCCA
GGCCTATTTGCGGTGTGAAAAAAATGAGAACTTGGCTGCCAACTTCCTCCTGAGTCAGAACTTTGATGACGAGTG
ATGCCAGGAAGCCAGGCCACCGAAGCCCCACCCTACCCTTATTCCATGAAAGTTTATAAAAGAAAAAATATAT
ATATATTCATGTTTATTTAAGAAATGGAAAAAAATCAAAAATCTTAAAAAAACAAGCAAACAGTCCAGCTTCC
TGTCTCCTAAAGTGGCCCCCTGTTCCTATCTCCCGGGCCAGACAGCTGTCCCCCGTCTCCTCCCCAGCCCAGC
CTGCTCAGAGAAGCTGGCAGGACTGGGAGGCGACAGATGGGCCCCCTCTTGGCCTCTGTCCCAGCTCTCTGCAGCC
AGACGGAAAGGCGGCTGCTTGCCCTCTCCATCTCCGAAAAACCCCTGAGGACCCCCCCCCATCCTCTTCTAGGAT
GAGGGGAAGCTGGAGCCCCAACTTTGATCCTCCATTGGAGTGGCCCCAAATCTTCCATCTAGGGCAAGTCCTGAA
AGGCCCAAGGCCCTCCCCAGTCTGGCCTTGGCCTCCAGCCTGGAGAAGGGCTAACATCAGCTCATTGTCAAGG
CCACCCCCACCCAGAACAGAACCGTGTCTCTGATAAAGGTTTTGAAGTGAATAAAGTTTTAAAACT

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FIGURE 5284

MAVTITLKTLOQQTFFKIRMEPDETVKVLKEKIEAEKGRDAFPVAGQKLIYAGKILSDDVPIRDYRIDEKNFVVVM
VTKTKAGQGTSAPPEASPTAAPESSTSFPPAPTSGMSHPPPAAREDKSPSEESAPTTSPEVSGSVPSGSSGRE
EDAASLTGSEYETMLTEIMSMGYERERVVAALRASYNPNPHRAVEYLLTGIPGSPEPEHGSVQESQVSEQPATE
AAGENPLEFLRDQPFQNMQRQVIQQNPALLPALLOQLGQENPQLLOQISRHQEQFIQMLNEPPGELADISDVEGE
VGAIGEEAPQMNYIQVTPQEKEAIERLKALGFPESLVIQAYFACEKNENLAANFLLSQNFDDE

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FIGURE 5285

ATGGCGGCGTCCGTGCGACAGGCACGCAGCCTACTAGGTGTGGCGGCGACCCTGGCCCCGGGTTCCTCGTGGCTAC
CGGGCGCGGCCGCCCCGCGCCGCAGGCCGGGACCCCGGTGGCCAGACCCGAGGACCTCCTGACCCGCGGTGG
CAGCTGGGACCGCGCTACGCGGCTAAGCAGTTCGCGCGTTACGGCGCCGCCTCCGGGGTGGTCCCCGGTTCGTTA
TGGCCGTCGCCGGAGCAGCTGCGGGAGCTGGAGGCCGAAGAACGCGAATGGTACCCGAGCCTGGCGACCATGCAG
GAGTCGCTGCGGGTGAAGCAGCTGGCCGAAGAGCAGAAGCGTTCGGGAGAGGGAGCAGCACATCGCAGAGTGCATG
GCCAAGATGCCACAGATGATTGTGAACTGGCAGCAGCAGCAGCGGGAGAACTGGGAGAAGGCCCAGGCTGACAAG
GAGAGGAGGGCCCCGACTGCAGGCTGAGGCCCAGGAGCTCCTGGGCTACCAGGTGGACCCAAGGAGTGCCGCTTC
CAGGAGCTGCTCCAGGACCTAGAGAAGAAGGAGCGCAAGCGCCTCAAGGAGGAAAAACAGAAACGGAAGAAGGAG
GCGCGAGCTGCTGCATTGGCTGCAGCTGTGGCTCAAGACCCAGCAGCCTCTGGGGCACCCAGCTCCTGA

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FIGURE 5286

CTAATTCGGGAAACGTGCACCTTGACTAATTTCGGTTTTCTGTGGCTACGAGAGCAGGCTTGGCGGGCGGAGGCGC
CAGCGGATGTCTCATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTTCCGCTCCGCCCGGGTGCTCTCTAGAGC
CCGGTTTTTCGAGTGGCAGTCTCCAGGGCTGCCGAATACAGCAGCGATGGAGAACGGCACCGGGGCCCTACGGAGA
AGAACGTCCACGTGAAGTCCAGGAGACGACAGTCACCGAGGGGGCTGCCAAAATCGCCTTTCCAGTGCCAACGA
GGTCTTTTATAACCCGGTGCAGGAATTCAATCGGGACCTGACATGTGCTGTGATCACCGAGTTTGCTCGCATTCA
GCTTGGGGCCAAAGGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCGTGGACTTGTCAGA
GCAAGAGGAGGAAAAGGTTGAACTGAAAGAGAGTGAAAACCTGGCCTCAGGAGACCAACCTCGCACAGCGGCCGT
GGGGGAGATCTGTGAGGAAGGCCTGCATGTGCTGGAAGGCCTGGCAGCTTCAGGCCTACGTTCCATTTCGATTTGC
CCTAGAGGTGCCCTGGGCTCAGATCTGTGGTTGCAAACGATGCCCTCCACCCGGGCTGTGGATCTCATACGCCGGAA
TGTCCAGCTCAATGACGTGGCCACCTGGTACAGCCGAGCCAAGCAGATGCCCGGATGCTGATGTACCAGCACCA
GAGGGTGTTCGGAGAGGTTTGACGTTCATCGATCTGGACCCCTATGGCAGCCACGCCACCTTCCTGGATGCAGCTGT
GCAGGCTGTGAGTGAAGGAGGGTTGCTGTGTGTGACCTGCACAGACATGGCGGTGTTGGCGGGGAACAGCGGGGA
GACGTGCTACAGCAAGTACGGGGCCATGGCCCTCAAGAGCCGGGCCTGCCACGAGATGGCCCTGAGAATCGTCCT
GCACAGCCTGGACCTCCGCGCCAACCTGCTACCAGCGCTTCGTGGTGCCGCTGCTCAGCATCAGCGCTGACTTCTA
CGTGCGTGTTTTTGTCCGTGTCTTCACCGGCCAGGCCAAGGTCAAGGCCTCAGCCAGCAAGCAGGCGCTGGTGTT
CCAGTGTGTGGGCTGCGGGGCCTTCCACCTTCAGCGTCTCGGCAAAGCGTCAGGAGTCCCCAGCGGCCGGGCCAA
GTTCTCTGCAGCCTGTGGTCCCCCTGTGACCCCCGAGTGTGAACACTGTGGGCAACGACACCAGCTTGGTGGCCC
CATGTGGGCAGAGCCCATCCATGACCTGGATTTTGTGGGCCGTGTCCTGGAGGCTGTGAGCGCTAACCCCGGCCG
CTTCCACACCTCGGAGCGGATCCGAGGGGTCTGAGCGTCATCACTGAGGAGCTCCCGGACGTGCCTCTGTACTA
CACCTTGGACCAGCTGAGCAGCACCATCCACTGCAACACACCAAGCCTCCTGCAGTTGCGGTGCGCCCTCCTCCA
CGCTGACTTCCGGGTCTCACTCTCCACGCCTGTAAGAACGCTGTGAAGACGGATGCCCTGCCTCTGCCCTCTG
GGACATCATGCGTTGCTGGGAGAAGGAATGTCCGGTGAAACGGGAGCGACTATCAGAGACTAGCCCAGCGTTCCG
CATTCTCAGTGTGGAGCCCAGGCTGCAGGCCAACTTCACCATCCGGGAAGATGCCAACCCAGCTCCCGACAGCG
AGGACTCAAGCGCTTCCAGGCTAACCCGGAGGCCAAGTGGGGTCCCCGGCCTCGTGCCCGGCCAGGGGGCAAGGC
GGCCGACGAAGCTATGGAGGAGAGACGCAGGCTGCTTCAGAACAAAGCGGAAGGAGCCGCCGAAGATGTGGCCCA
GCGGGCTGCCCGGCTCAAGACATTTCTTGCAAGAGGTTTAAGGAGGGCACCTGTCAACGCGGGGACCAGTGCTG
CTACTCCCACAGCCCCCGACACCCAGGGTTTCTGCTGATGCTGCCCCTGACTGTCCAGAGACCTCCAACCAGAC
CCCCCTGGACCTGGGGCTGCCGCTGGGCCAGGCATAGACTTGAACCAATAAAGAGATGTCACGTCACCTTCAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5287

MQGSSLWLSLTFRSARVLSRARFFEWQSPGLPNTAAMENGTGPYGEERPREVQETTVTEGAAKIAFPSANEVFYN
PVQEFNRDLTCAVITEFARIQLGAKGIQIKVPGEKDTQKVVDLSEQEEKVELKESENLASGDQPRTAAVGEIC
EEGLHVLEGLAASGLRSIRFALEVPGRLSVVANDASTRAVDLIRRVQLNDVAHLVQPSQADARMLMYQHQRVSE
RFDVIDLDPYGPATFLDAAVQAVSEGGLLCVTCTDMAVLAGNSGETCYSKYGAMALKSRACHEMALRIVLHSLD
LRANCYQRFVVPLLSISADFYVRVFVRVFTGQAKVKASASKQALVFQCVGCGAFHLQRLGKASGVPSGRAKFSAA
CGPPVTPECEHCGQRHQLGGPMWAEP IHDLDVFGRVLEAVSANPGRFHTSERIRGVLSVITEELPDVPLYTLDQ
LSSTIHCNTPSLQLRSALLHADFRVSLSHACKNAVKTDAPASALWDIMRCWEKECPVKRERLSETSPAFRILSV
EPRLQANFTIREDANPSSRQRLKRFQANPEANWGPRPRARPGGKAADEAMEERRRLQNKRKEPPEDVAQRAAR
LKTFPCKRFKEGTCQRGDQCCYSHSPPTPRVSADAAPDCPETSNTPTPPGPGAAAGPGID

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FIGURE 5288

ATGTCTCTCGAAGACCCCTTTTTG TAGTCCGAGGCGAGGTGCAGAAGGCGGTGAACACGGCCCCGCGGGCTGTAC
CAGCGCTGGTGCGAGCTCCTGCAGGAAAGCGCGGCGGTCCGACGCGAGGAGCTGGACTGGACGACCAATGAGCTG
CGGAATGGCCTGCGCAGCATCGAGTGGGACCTCGAGGACCTGGAAGAGACCATCGGTATAGTGGAAAGCCAACCCA
GGCAAGTTCAAGCTCCCAGCCGGGGACCTGCAGGAGAGAAAGGTGTTTCGTGGAGCGGATGCGAGAGGCAGTCCAG
GAAATGAAGGACCATATGGTCAGCCCAACAGCCGTAGCATTTTTGGAGAGGAATAACAGAGAGATACTCGCAGGC
AAGCCAGCTGCCCAGAAAGTCACCCAGCGACCTGCTGGATGCCAGCGCAGTCTCGGCCACATCTCGCTACATCGAG
GAGCAGCAGGCCACACAGCAGCTGATCATGGATGAACAGGATCAACAGCTGGAGATGGTGTCTGGGAGCATCCAG
GTTCTGAAGCACATGTCCGGCCGCGTTGGAGAAGAGCTGGACGAGCAGGGCATCATGCTGGATGCCTTCGCCCAA
GAGATGGACCACACCCAGTCCCGCATGGACGGGGTCCTCAGGAAGTTGGCCAAAGTATCCCACATGACGAGTGAC
CGCCGACAGTGGTGTGCCATCGCCGTGCTAGTGGGGTGCTTCTCCTCGTTCTCATCTTACTATTCTCTCTCTTGA

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FIGURE 5289

MSLEDPFFVVRGEVQKAVNTARGLYQRWCELLQESAAGREELDWTITNELRNGLSIEWDLEDLEETIGIVEANP
GKFKLPAGDLQERKVFVERMREAVQEMKDHMVSPATAVAFLENNREILAGKPAAQKSPSDLLDASAVSATSRYE
EQQATQQLIMDEQDQQLEMVSGSIQVLKHMSGRVGEELDEQGIMLDAFAQEMDHTQSRMDGVLRLAKVSHMTSD
RRQWCAIAVLVGVLVLLVLLVLLFSL

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FIGURE 5290

GGTTTGTGTAGAGAGGCGTGAGCGAGCCCGTTGTCCGGAGTGACCTGCTGCCTGTTCTGTCCCTCCCGGGAGCC
CCCGCCGCTGTCGCCGTCGAGTCGCCATGGAAGTGCAGAAAGAGGCACAGCGCATCATGACCCTGTCGGTGTGGA
AGATGTATCACTCCCGCATGCAGCGCGGTGGCCTGCGGCTGCACCGGAGTCTGCAGCTGTCGCTGGTCATGCGCA
GCGCCCGGGAGCTCTACCTCTCGGCCAAGGTGGAGGCCCTCGAGCCCGAGGTGTGCTTGCCGGCCGCCCTCCCT
CTGACCCTCGCCTGCACCCGCCCGGAGAAGCCGAGTCCACGGCCGAGACAGCGACCCCCGACGGTGAGCACCCGT
TTCCGGAGCCAATGGACACGCAGGAGGCGCCGACAGCCGAGGAGACCTCCGCCTGCTGTGCCCCGCGCCCCGCCA
AAGTCAGCCGCAAACGACGCAGCAGCAGCCTGAGCGACGGCGGGGACGCTGGACTGGTCCCGAGCAAGAAAGCCC
GTCTGGAAGAAAAGGAAGAAGAGGAGGGAGCGTCATCCGAAGTCGCCGATCGCCTGCAGCCCCCTCCGGCGCAAG
CGGAGGGCGCCTTTCCCAACCTGGCCCGCGTCTGTCAGAGGCGCTTCTCCGGCCTCCTGAACTGCAGCCCCGCGG
CCCCCTCCGACGGCGCCGCCCGCGTGCAGGGCAAAGCCCGCTTGCCGCCCGGGCGGACAGCATGCTCAACGTGCTCG
TGCGGGCCGTGGTGGCCTTCTTGAGGACCCCGAGCGGCGCTGCCGGAGCCCAGAGCGCGCTCGAACCGTCGGCCC
GAGGGCGCAGACCTGAGGCGAGGCCACCCCCCTCCATCCTGGGGGAAGCGCCCGCGAAAACCGTGAGAGAAGCC
GCCGCCCGGGCTGCTGAGAGGCCCGGAGAGGGACTCTGTCCCCGGGGAGCCATCGCCTTCAGTGTGCAGGGACGG
CACCGAGGAGTCTGAGCCGGGGGCGCGGGCGCCTTCCGAGAGACCTGCGCCACAGGTGCTGTCTTAGTGGACT
GGGACGTGAACCTTTCGCTCTCCTTCTGGACTGGGAGAAGGGAGGCTTGGGTGTTGTGTTTTTGTGTTTTGTTGT
TTGTTTGTGTTTTAAAGATCTCCTCAGGGTCGGACTTCATTTTGTACTGTGGGCTGTGCTGGCCCTTCAAGGTTT
TTCAAGAGTTGGTTTTGCGTTTTCCAACCTCGGAGAATTCCAGGCACTCCCCTTCCCCCTCCGCTGACATACTTGT
ATAAGCGGTCATCGTTGCGTCATGGGGCAGGCGTGGGGAGCTTCCTGTGCGCTTGCGTGGGTGTGGGGCCTGGGA
GGAGGTCTGGGGCGTGACCCGCCCTGGGCAGTGGGGAGGAGAGTGGCCTGAGTTACTTCACCCCGCGTGCTG
CTGGTTAATGTCCCGCGTCTCTGCACCTTCGGGTGGGAGCGGGGACTGATCTACTTTCACATTCTCAAGTTTTTC
TCATCTGCATTAGAGGTGCCAGTAGGTTCCAGGTTCCAGCGTGCCCCCTCCCTCAGACACACGGACACAATCAG
CCGAGAAGTTCCTGGTCTGAATCACGAGAATGTGGAGGGGTGGGGGTGTGAGTGGAAGGCATAAGGCTGAGCT
GAGACCAGTTGCTGGTGAACTGGGCCAATCTGGGGAGGGGAACATCCTTGCCAGGGAGTTTCTGAGGGTCTGCT
TTGTTTACCTTTCGTGCGGTGGATTCTTTTTAACTCCGTCTACCTGGCGTTTTGTTAGAAATGTCAGATAGGAAA
ATAAAAACCATTTGAGT

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FIGURE 5291

MEVQKEAQRIMTILSVWKMYHSRMQRGGGLRLHRSLSLVMSARELYLSAKVEALEPEVSLPAALPSDPR LHPPR
EAESTAETATPDGEHPFPEPMDTQEAPTAEETSACCAPRPAKVSRKRRSSSLSDGGDAGLVPSKKARLEEKEEEE
GASSEVADRLQPPPAQAEGAFP NLARVLQRRFSGLLNCS PAAPTAPPACEAKPACRPADSM LNVLVRAV VAF

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FIGURE 5292

CAAGTGC GCGCGGACCCCTAGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACC**ATG**ACCCTGGAGGCGATC
CGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGCCCAAGCAGAGCCGCTACGAGGCGGTGGGC
TCGGTGCACCAGGCCTGGGAGGCCATCCGCGCCATGAAGGTGCGGGGCGCCCCGGCCATAGCCCTGGTGGGCTGT
CTCAGCCTCGCCGTGGAGCTGCAGGCGGGCGCCGGGGGACCGGGACTCGCCGCGCTCGTGGCCTTCGTGCGCGAC
AAGCTGAGCTTCCTCGTCACCGCCCGGCCACCGCTGTCAACATGGCCCGCGCCGCCCGCGACCTGGCTGATGTT
GCAGCCCGGGAGGCCGAACGGGAGGGCGCTACGGAAGAGGCGGTCCGGGAGAGAGTGATCTGCTGCACCGAGGAC
ATGCTGGAGAAAGACCTCAGAGACAACCGAAGCATTGGGGACCTAGGAGCCCGCCACCTCCTGGAGCGGGTGGCC
CCCAGCGGTGGCAAGGTGACTGTGCTGACCCACTGTAACACTGGTGCTCTGGCCACCGCTGGCTATGGTACAGCC
CTAGACGTGAAACGGAGCTATGCGAGCATTGGGAAGAGCATAACAGGCAGAGGGAAGTCCCACTGCGAGGGCCCC
TGGGCGGGACTGTGCTCGGTAAGCCTTTGGCAATCCACGCCCAGACTAGGAGCCTGCACCCCTAACCAATGGACC
ACCCTGTCTGTTTGGCCCTCCCGGGGCCTTCTCCTGGTGGGTGGGGCCCCCGCAGGTGTGATTCGCTCACTGCA
CAGCCTGGGCCGCCTGGAGCATGCCTTCTGCACAGAGACCCGGCCCTACAACCAGGGAGCCCGGCTGACGGCCTT
TGAGCTGGTCTATGAGCAGATCCC

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FIGURE 5293

MTLEAIRYSRGS LQILDQ LLLPKQSR YEAVGSVHQ AWEAIRAMKVRGAPAIALVGCLSLAVELQAGAGGPGLAAL
VAFVRDKLSFLVTARPTAVNMARAARDLADVAAREAEREGATEEAVRERVICCTEDMLEKD LRDNRSIGDLGARH
LLERVAPSGGKVTVLTHCNTGALATAGYGTALGVIRSLHSLGRLEHAFCTETRPYNQGARLTAFELVYEQIPATL
ITDSMVAAAMAHRGVSAVVVGADRVVANGDTANKVGTYQLAIVAKHHGIPFYVAAPSSCDLRLETGKEIIIEER
PGQELTDVNGVRIAAPGIGVWNPAFDVTPHDLITGGIITELGVFAPEELRTALTTTISRDTLDGPQM

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FIGURE 5294

GAATTAAAAAAAAAAAAAGCCTTATTTATTATCATTTTCCCCACCGTTGGCATGGCAACACAGGCGTATACTGA
GCTACAGGCAGCCCCGCCACCATCCCAGCCGCCACAGCCCCGCCACAAGCCCAGCCCCAGCCGCCACCGCCACC
ACCCCCAGCGGCACCCCCAGCCCCCGCAGCCACCCACCGCTGCTGCCACCCCTCAGCCCCAATATGTACCCGAGCT
GCAGAGCCCCCAGCCCCAGGCACAGCCACCGGGTGGCCAGAAGCAGTACGTGACGGAGCTCCCGGCTGTACCCGC
ACCTTCGCAGCCAACCGGTGCACCCACCCCTTCGCCTGCACCCACAGCAGTACATCGTGGTCACTGTCTCTGAAGG
TGCCATGCGGGCCAGCGAGACAGTGTGCGAGGCCAGCCCCGGCTCCACCGCCAGCCAGACCGGCGTTCCCTACTCA
GGTGGTTCAGCAGGTGCAGGGCAGCCAGCAGCGGTGCTGGTCCAGACGAGCGTGCAGGCCAAGCCAGGCCACGT
GTCGCCCCCTCAGCTGACCAACATCCAAGTGCCCCAGCAGGCTCTTCCACGCAGCGTCTGGTGGTGCAGAGCGC
AGCCCCAGGCAGCAAAGGTGGCCAGGTCTCCCTGACGGTCCATGGTACCCAGCAGGTGCACTCGCCCCAGAGCA
GTCGCGGGTGCAGGCCAACAGCTCTTCCAGCAAGACAGCCGGGGCCCCACGGGCACAGTGCCACAGCAGCTGCA
GGTCCACGGCGTCCAGCAGAGTGTCCCGTCACCCAAGAGAGATCTGTGGTCCAGGCCACTCCACAAGCGCCCAA
ACCCGGCCCCGTGCAGCCGCTGACCGTGCAGGGCCTCCAGCCAGTCCACGTGGCTCAAGAGGTGCAGCAGCTCCA
GCAGGTGCCCCGTCCACACGTGTACTCCAGCCAGGTGCAGTATGTGGAGGGCGGCGATGCCAGCTACACGGCCAG
TGCCATCCGTTCCAGCACCTACTCCTATCCCAGAGACGCCGCTGTACACGCAGACGGCAAGCACCAGCTACTACGA
GGCCGCAGGCACGGCCACCCAGGTGAGCAGCCCCGCCACCTCCAGGCGGTGGCCAGCAGTGGCTCCATGCCCAT
GTACGTGTCCGGCAGCCAGGTGCTCGCCAGCTCCACCAGCACTGGGGCTGGGGCCAGCAACAGCAGCGGAGGTGG
TGGCAGTGGTGGTGGCGGCGGCGGGGGAGGCGGTGGCGGGGGTGGCAGTGGCAGCACCAGGAGGCGGCGGCAG
CGGAGCAGGCACCTACGTGATCCAAGGCGGCTACATGCTGGGCAGTGGCAGCCAGTCTTACTCTCACACCACCCG
TGCCTCGCCAGCCACGGTCCAGTGGCTCCTGGACAATATGAGACGGCTGAGGGCGTGAGTCTGCCACGGAGCAC
CCTCTACTGCCACTACTTACTGCACTGCCAGGAGCAGAAGCTGGAGCCCGTCAACGCCCGCTCCTTCGGCAAGCT
CATCCGCTCCGTCTTCATGGGCCTGCGAACCCGCCGCTCTGGGCACCAGGGGCAACTCCAAGTACCACTACTATGG
CCTGCGCATCAAGGCCAGCTCACCCCTGCTGCGGCTGATGGAGGACCAGCAGCACATGGCCATGCGGGGCCAGCC
CTTCTCGCAGAAGCAGAGGCTCAAGCCCATCCAGAAGATGGAAGGCATGACCAACGGCGTGGCGGTGGGGCAGCA
GCCGAGCAGCGGGCTGTGCGACATCAGCGCCCAGGTGCAGCAGTACCAGCAATTTTTGGATGCCTCTCGGAGCCT
CCCTGACTTCACAGAGCTCGACCTCCAGGGCAAGGTGCTGCCTGAGGGCGTTCGGGCCCCGGGACATCAAAGCCTT
CCAGGTCTGTACCGGGAACACTGTGAGGCCATTGTGACGTCATGGTGAACCTGCAGTTACCCCTGGTGGAGAC
GCTGTGGAAGACCTTCTGGAGGTACAACCTCAGCCAGCCCAGTGAGGCGCCACCGCTGGCTGTACATGACGAGGC
CGAGAAGCGACTGCCCAAAGCCATCCTGGTGCTCCTCTCCAAGTTCGAGCCCGTGTCTCAATGGACCAAGCACTG
TGACAACGTGCTGTACAGGGCCTGGTGGAAATCCTCATTCCCGACGTGCTGCGGCCCATCCCCAGTGCCTTGAC
CCAAGCGATCCGGAACCTTTGCCAAGAGCCTGGAGAGCTGGCTCACCCACGCCATGGTCAACATCCCCGAGGAGAT
GCTGCGGGTGAAGGTGGCCGCGGCTGGCGCCTTCGCGCAGACACTGCGGCGCTACACGTGCTCAACCACCTGGC
GCAGGCGGCGCGCGCTGTGCTGCAGAACCCGCACAGATCAACCAGATGCTGAGCGACCTCAACCGCGTGGACTT
CGCCAACGTGCAGGAGCAGGCCTCGTGGGTGTGCCGCTGCGAGGACCGCGTGGTGCAGCGGCTGGAGCAGGACTT
CAAGGTGACGCTGCAGCAGCAGAACTCGCTGGAGCAGTGGGCGGCCTGGCTGGACGGCGTGGTGGAGCCAGGTGCT
CAAGCCCTACCAGGGCAGCGCCGGCTTCCCCAAGGCCGCCAAGCTCTTCTCCTCAAGTGGTCTTCTACAGCTC
CATGGTGTATCCGGGACCTGACCTGCGCAGCGCCGCCAGCTTCGGTTCCTTCCACCTCATCCGGCTGCTCTACGA
CGAGTACATGTACTACCTGATCGAGCACCGCGTAGCCCAGGCCAAGGGCGAGACCCCCATCGCCGTATGGGCGA
GTTTCGCCAATCTGGCCACCTCCCTGAACCCCTGGACCCCGACAAAGACGAGGAGGAAGAAGAGGAGGAGGAGAG
CGAGGACGAGCTGCCGCAGGACATCTCACTGGCGGCTGGCGGCGAGTACCCGCGCTGGGCCCCGAGACCCCTGGA
GCCGCCGGCCAAGCTGGCGCGGACTGACGCGCGCGGCCTCTTCGTGCAGGCGCTGCCCTCCAGCTAAGCCCTTGG
CCTCCCCGCCCCACCCGCCCCCGCCACCCCTCCACGCCAGGTGCC

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FIGURE 5295

CGCGTCCGCCGATTCTCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAACTTCCTAGC
ACATGAGAAGATCTGGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCC
TGTGGCAGGTGCCTCCCGCCAGGAGAACGGCGCCAGCCGGAGACCACAGCGAGCTCGTTGTCCGGATCGCCAGTC
TGGAAGTGGAGAACCAGAGCCTGCGTGGCGTGGTACAGGAGCTGCAGCAGGCCATCTCCAAGCTGGAGGCCCAGC
TGAACGTGCTGGAGAAGAGCTCGCCTGGCCACCGGGCCACGGCCCCGAGACCCAGCACGTGTCTCCTATGCGCC
AAGTGGAGTCCCCGGCCAAGAAGCCAGCCTCACCAGCAGAGGATGACGAGGATGATGACATCGACCTGTTTGGCA
GCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCGGCTACGGCAGTACGCGGAGAAGGCCA
AGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCCTTGGGACGATGAGACGGACATGGCCC
AGCTGGAGGCCTGTGTGCGCTCTATC

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FIGURE 5296

MATNFLAHEKIWFDFKFKYDDAERRFYQQMNRPVAGASRQSSGPGASSGPGSDHSELVVRIASLEVENQSLRGVVQ
ELQQAISKLEAQLNVLEKSSPGHRATAPQTQHVSEPMRQVESPAKKPASPAEDDEDDIDLFGSDNEEEDKEAAQL
REERLRQYAEKAKKPALVAKSSILLDVKPWDDETDMAQLEACVRSIELDGLVWGTSKLMPVGYGIRKLQIQCVVE
DDKVGTYLLEEEITKFEEHVQSVDIAAFNKI

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FIGURE 5297

CCTCCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAACTTCCTAGCACATGAGAAGATCT
GGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCCTGTGGCAGGTGCCT
CCCGCCAGGAGAACGGCGCCAGCGTGATCCTCCATGACATTGCAAGAAGCCAGCCTCACCAGCAGAGGATGACGA
GGATGATGACATCGACCTGTTTGGCAGCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCG
GCTACGGCAGTACGCGGAGAAGGCCAAGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCC
TTGGGACGATGAGACGGACATGGCCCAGCTGGAGGCCTGTGTGCGCTCTATCGAGCTGGACGGGCTGGTCTGGGG
GACCTCCAAGCTGATGCCCCGTGGGCTACGGTATCCGGAAGCTACAGATTTCAGTGTGTGGTGGAGGACGACAAGGT
GGGGACTTACTTGCTGGAGGAGGAGATCACTAAATTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAA
CAAGATCTGAAGCCTGAGTGTGTGTATGTGTGCGCGTGCCTAAGGCCCTGCCACGATTAAAGACTGAGACCGGC

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FIGURE 5298

CAGTGXGCTCCGGGCGCCGGCGCCAGCCAGCACCCGCCGCGCCGAGCTCCGGGACCGGCCCCGGCGCCGCCG
CCGCGATGGGCAACGCCGCCGCCGCCAAGAAGGGCAGCGAGCAGGAGAGCGTGAAAGAATTCTTAGCCAAAGCCA
AAGAAGATTTTCTTAAAAAATGGGAAAGTCCCGCTCAGAACACAGCCCACTTGGATCAGTTTGAACGAATCAAGA
CCCTCGGCACGGGCTCCTTCGGGCGGGTGATGCTGGTGAAACACAAGGAGACCGGGAACCACTATGCCATGAAGA
TCCTCGACAAACAGAAGGTGGTGAAACTGAAACAGATCGAACACACCCTGAATGAAAAGCGCATCCTGCAAGCTG
TCAACTTTCCGTTCTCGTCAAACTCGAGTTCTCCTTCAAGGACAACCTCAAACCTATACATGGTCATGGAGTACG
TGCCCCGGCGGGGAGATGTTCTCACACCTACGGCGGATCGGAAGGTTTCACTGAGCCCCATGCCCGTTTCTACGCGG
CCCAGATCGTCTGACCTTTGAGTATCTGCACTCGCTGGATCTCATCTACAGGGACCTGAAGCCGGAGAATCTGC
TCATTGACCAGCAGGGCTACATTGAGGTGACAGACTTCGGTTTCGCCAAGCGCGTGAAGGGCCGCACTTGGACCT
TGTGCGGCACCCCTGAGTACCTGGCCCCCTGAGATTATCCTGAGCAAAGGCTACAACAAGGCCGTGGACTGGTGGG
CCCTGGGGGTTCTTATCTATGAAATGGCCGCTGGCTACCCGCCCTTCTTCGCAGACCAGCCCATCCAGATCTATG
AGAAGATCGTCTCTGGGAAGGTGCGCTTCCCTTCCCACTTCAGCTCTGACTTGAAGGACCTGCTGCGGAACCTCC
TGCAGGTAGATCTCACCAAGCGCTTGGGAACCTCAAGAATGGGGTCAACGATATCAAGAACCACAAGTGGTTTG
CCACAACCTGACTGGATTGCCATCTACCAGAGGAAGGTGGAAGCTCCCTTCATACCAAAGTTTAAAGGCCCTGGGG
ATACGAGTAACCTTGACGACTATGAGGAAGAAGAAATCCGGGTCTCCATCAATGAGAAGTGTGGCAAGGAGTTTT
CTGAGTTTTAGGGGCATGCCTGTGCCCCCATGGGTTTTCTTTTTTCTTTTTTCTTTTTTTGGTGGGGGGGTGG
GAGGGTTGGATTGAACAGCCAGAGGGCCCCAGAGTTCTTGCATCTAATTTACCCCCACCCACCCCTCCAGGGT
TAGGGGGAGCAGGAAGCCAGATAATCAGAGGGACAGAAACACCAGCTGCTCCCCCTCATCCCTTACCCCTCCT
GCCCCCTCTCCCACTTTTCCCTTCCCTCTTTCCCCACAGCCCCCAGCCCCCTCAGCCCTCCAGCCCACTTCTGCC
TGTTTTAAACGAGTTTTCTCAACTCCAGTCAGACCAGGTCTTGCTGGTGATCCAGGGACAGGGTATGGAAAGAGG
GGCTCACGCTTAACCTCCAGCCCCCACCACACCCCATCCACCCAACCACAGGCCCACTTGCTAAGGGCAAAT
GAACGAAGCGCCAACCTTCCCTTTCGGAGTAATCCTGCCTGGGAAGGAGAGATTTTAGTGACATGTTAGTGGGT
TGCTTGCTAGAATTTTTTTAAAAAACAACAATTTAAAATCTTATTTAAGTTCACCAGTGCCTCCCTCCCTCCT
TCCTCTACTCCCAACCCTCCCATGTCCCCCATTCCTCAAATCCATTTAAAGAGAAGCAGACTGACTTTGGAAA
GGGAGGCGCTGGGGTTTGAACCTCCCGCTGCTAATCTCCCTGGGCCCCCTCCCGGGGAATCCTCTCTGCCAAT
CCTGCGAGGGTCTAGGCCCCCTTAGGAAGCCTCCGCTCTCTTTTCCCCAACAGACCTGTCTTCACCCTTGGGCT
TTGAAAGCCAGACAAAGCAGCTGCCCCCTCTCCCTGCCAAAGAGGAGTCATCCCCAAAAAGACAGAGGGGGAGCC
CCAAGCCCAAGTCTTTCCTCCAGCAGCGTTTCCCCCAACTCCTTAATTTTATTCTCCGCTAGATTTTAACGTC
CAGCCTTCCCTCAGCTGAGTGGGGAGGGCATCCCTGCAAAAGGGAACAGAAGAGGCCAAGTCCCCCAAGCCACG
GCCCCGGGTTCAAGGCTAGAGCTGCTGGGGAGGGGCTGCCTGTTTTACTCACCCACCAGCTTCCGCTCCCCAT
CCTGGGCGCCCCCTCCTCCAGCTTAGCTGTGAGCTGTCCATCACCTCTCCCCCACTTTCTCATTGTGCTTTTTTC
TCTCGTAATAGAAAAGTGGGGAGCCGCTGGGGAGCCACCCATTATCCCCGTATTTCCCCCTCTCATAACTTCT
CCCCATCCCAGGAGGAGTTCTCAGGCCTGGGGTGGGGCCCCGGGTGGGTGCGGGGGCGATTCAACCTGTGTGCTG
CGAAGGACGAGACTTCCTCTTGAACAGTGTGCTGTTGTAAACATATTTGAAAACATTACCAATAAAGTTTGT

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FIGURE 5299

MGNAAAAKKGSEQESVKEFLAKAKEDFLKKWESPAQNTAHLQFERIKTLGTGSFGRVMLVKHKETGNHYAMKIL
DKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMVMEYVPGGEMFSLRRIGRFSEPHARFYAAQ
IVLTFEYLHSLDLIYRDLKPENLLIDQQGYIQVTDGFAKRVKGRTWTLCGTPEYLAPEIILSKGYNKAVDWWAL
GVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFP SHFSSDLKDLLRNLLQVDLTKRFGNLKNGVNDIKNHKWFAT
TDWIAIYQRKVEAPFIPKFKGPGDTSNFDYEEEEIRVSINEKCGKEFSEF

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FIGURE 5300

AGATTTGAAGGCGGCGCGGACTAGGTGCGCACTTCAGTTCTCGGAGAGAAGAGGCGGGAGTGGACCTGGTCAG
CCCTACCCCACTGACCCCAACCGGACCCAGGCGCGGCCTCCGCCACAGCCACAGCCCCCTGCCCCCTGCTGCGGCGCG
GCGAGGCGAGGCGATGGCCCAAGGTGTCGGTGCTGAACGTGGCGGTCCTGGAGAACCCGAGCCCTTTCCACAGCCC
CTTCCGGTTCGAGATCAGCTTCGAGTGCAGTGAAGCCCTGGCGGACGACCTGGAGTGGAAGATCATTATGTTGG
CTCGGCTGAGAGTGAGGAATTTGATCAGATCCTAGACTCGGTGCTGGTGGGCCCTGTGCCAGCAGGGAGACACAT
GTTTGTCTTTCAGGCCGACGCCCCCAACCCATCCCTCATCCCAGAGACTGATGCCGTGGGTGTGACTGTGGTCCT
CATCACCTGCACCTACCATGGACAGGAGTTCATCCGAGTGGGCTACTACGTCAACAACGAGTACCTCAACCCTGA
GCTGCGTGAGAACCCGCCCATGAAGCCAGATTTCTCCAGCTCCAGCGGAACATCTTGGCCTCGAACCCCCGGGT
GACCCGCTTCCATATCAACTGGGACAACAACATGGACAGGCTGGAGGCCATAGAGACCCAGGACCCCTCCCTGGG
CTGCGGCCTCCCACTCAACTGCACTCCTATCAAGGGCTTGGGGCTCCCTGGCTGCATCCCTGGCCTCCTCCCTGA
GAACTCCATGGACTGCATCTAACTGCAGGAACCCAGAGTGTCCCAGCACGCCGGGAGGGGCAACCAGGCCTCCCA
GCGAGTCCTGCAGGGCCCATCTAGAGGACTTTGGGGGCCATCAGCTGCAATCCAGGTCTGTCAAATCAGCCCCCT
AGGAAAGAACAGGCCTTGGGTCTCCCCTAGTCCTGGCCAGAAGGATGATCTCGCTTTTCTCTACAGGCCTATAA
GAAGCAGGTACTTCAGTTCTAAATTCTGACTTGTGTTCTTTTCGTCTTCATAAATTCTAACTAAGGCCACTGTGC
CACTGTGCACCCTTGAGTACCATTGATCCAAAGCTTTCCACAGACCTCCCTGGCCACCTAGAGGCTTTCTTGG
TCAGTGCCTGTCAAGGCTCCAGTCCCTGCTGAGCCAAAGGCTTTGTCAATTCCTTTCTCTTCTGTACATCTGAGCA
GACCCACTCCAGCTTTCTGGTGTACAGGCGGGAATGTTAGTTAGTAGGTAGACTTAGATCCCATTCTGTCTCTG
CTCCCAGGAAGATTCTTAGGTCTCTTCAATCCAGCAGCCCCCTCCAGAGGTGTGATCAGCAGGATGCTGAGGAA
CCATGTTGCCTTTCTGTCAATCACAGCCACCTTCCTGTTATCTCTAAATGGATCTGGCTTTTCTTGGAGGCTG
CCATGGTTGGAAGATGGTATCAGAGGGCCTGCCTGGGCAGTCTGTCTCCGGGCCAGGGTCAGGGACCCCTCTGCCT
CTGGCAGCCTTAACCTGTCTCTGTAGGACCAGGGTGATTTCAAGCCAGGGAAGCAACTGGGACCCCTGAAAACCT
GTCCCTCCCCAGCCCCGCTCCCCCTCTCTGTGCCCTGGTCCCCTTGCCGCCATGTGGATGCTGTTGTGATTGCTGT
TTGTATATTATCAAAATGTTTTTATATTAAAAATGTTTGGTCTGAAAATT

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FIGURE 5301

MAKVSVLNVAVLENPSPFHSPFRFEISFECSEALADDLEWKIIYVGSAESEEFDQILDSVLVGPVPAGRHMVFVQ
ADAPNPSLIPETDAVGVTIVVLITCTYHGQEFIRVGYYVNEYLNPELRENPPMKPDFSQLQRNILASNPRVTRFH
INWDNNMDRLEAIETQDPSLGCGLPLNCTPIKGLGLPGCIPGLLPENSMDCI

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FIGURE 5302

GGAAGCGCAGCAACTCGTGTCTGAGCGCCCGGCGGAAAACCGAAGTTGGAAGTGTCTCTTAGCAGCGCGCGGAGA
AGAACGGGGAGCCAGCATCATGGCAGAACAGGATGTGGAAAACGATCTTTTGGATTACGATGAAGAGGAAGAGCC
CCAGGCTCCTCAAGAGAGCACACCAGCTCCCCCTAAGAAAAGACATCAAGGGATCCTACGTTTCCATCCACAGCTC
TGGCTTCCGGGACTTTTCTGCTGAAGCCGGAGCTCCTGCGGGCCATCGTGGACTGTGGCTTTGAGCATCCTTCTGA
GGTCCAGCATGAGTGCATTCCCCAGGCCATCCTGGGCATGGACGTCTGTGCCAGGCCAAGTCCGGGATGGGCAA
GACAGCGGTCTTCGTGCTGGCCACCCTACAGCAGATTGAGCCTGTCAACGGACAGGTGACGGTCTGGTCATGTG
CCACACGAGGGAGCTGGCCTTCCAGATCAGCAAGGAATATGAGCGCTTTTCCAAGTACATGCCCAGCGTCAAGGT
GTCTGTGTTCTTCGGTGGTCTCTCCATCAAGAAGGATGAAGAAGTGTGAAGAAGAACTGTCCCCATGTCGTGGT
GGGGACCCCGGGCCGCATCCTGGCGCTCGTGCGGAATAGGAGCTTCAGCCTAAAGAATGTGAAGCACTTTGTGCT
GGACGAGTGTGACAAGATGCTGGAGCAGCTGGACATGCGGCGGGATGTGCAGGAGATCTTCCGCCTGACACCACA
CGAGAAGCAGTGCATGATGTTTCAGCGCCACCCTGAGCAAGGACATCCGGCCTGTGTGCAGGAAGTTTCATGCAGGA
TCCCATGGAGGTGTTTGTGGACGACGAGACCAAGCTCACGCTGCACGGCCTGCAGCAGTACTACGTCAAACCTCAA
AGACAGTGAGAAGAACC GCAAGCTCTTTGATCTCTTGGATGTGCTGGAGTTTAACCAGGTGATAATCTTCGTCAA
GTCAGTGCAGCGCTGCATGGCCCTGGCCCAGCTCCTCGTGGAGCAGAACTTCCCGGCCATCGCCATCCACCGGGG
CATGGCCCAGGAGGAGCGCCTGTCACGCTATCAGCAGTTCAAGGATTTCCAGCGGCGGATCCTGGTGGCCACCAA
TCTGTTTGGCCGGGGATGGACATCGAGCGAGTCAACATCGTCTTTAACTACGACATGCCTGAGGACTCGGACAC
CTACCTGCACCGGGTGGCCCGGGCGGGTCGCTTTGGCACCAAAGGCCTAGCCATCACTTTTGTGTCTGACGAGAA
TGATGCCAAAATCCTCAATGACGTCCAGGACCGGTTTGAAGTTAATGTGGCAGAACTTCCAGAGGAAATCGACAT
CTCCACATACATCGAGCAGAGCCGTAACCACCACGTGCCAGAGCCGCCACCCGGAGCCCGCCGCATGCAGCTT
CACCTCCCTTTCCAGGCGCCACTGTTGAGAAGCTAGAGATTGTATGAGAATAAACTTGTTATTATG

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FIGURE 5303

ACGCGCGCTCCTCTGGCCGCCCTCCCTCCGCGCGGGGACCCCTGGCGGGCGGCAGGAGGACATGGCCAGCGACG
CCGTGCAGAGTGAGCCTCGCAGCTGGTCCCTGCTAGAGCAGCTGGGCCTGGCCGGGGCAGACCTGGCGGGCCCCG
GGGTACAGCAGCAGCTGGAGCTGGAGCGGGAGCGGCTGCGGCGGGGAAATCCGCAAGGAGCTGAAGCTGAAGGAGG
GTGCTGAGAACCTGCGGCGGGCCACCACTGACCTGGGCCGCGAGCCTGGGCCCCGTAGAGCTGCTGCTGCGGGGCT
CCTCGCGCCGCTCGACCTGCTGCACCAGCAGCTGCAGGAGCTGCACGCCACGTGGTGCTTCCCGACCCGGCGG
CCACCCACGATGGCCCCCAGTCCCCTGGTGCGGGTGGCCCCACCTGCTCGGCCACCAACCTGAGCCGCGTGGCGG
GCCTGGAGAAGCAGTTGGCCATTGAGCTGAAGGTGAAGCAGGGGGCGGAGAACATGATCCAGACCTACAGCAATG
GCAGCACCAAGGACCGGAAGCTGCTGCTGACAGCCCAGCAGATGTTGCAGGACAGTAAGACCAAGATTGACATCA
TCCGCATGCAACTCCGCCGGGCGCTGCAGGCCGCGCCAGCTGGAGAACCAGGCAGCCCCGGATGACACCCAAGGGA
GTCCTGACCTGGGGGCTGTGGAGCTGCGCATCGAAGAGCTGCGGCACCACTTCCGAGTGGAGCACGCGGTGGCCG
AGGGTGCCAAGAACGTACTGCGCCTGCTCAGCGCTGCCAAGGCCCGGACCAGCAAGGCAGTCAGCGAGGCCAGG
AGAAATTAACAGAATCCAACCAGAAGCTGGGGCTGCTGCGGGAGGCTCTGGAGCGGAGACTTGGGGAGCTGCCCG
CCGACCACCCCAAGGGGCGGCTGCTGCGAGAAGAGCTCGCTGCGGCCCTCCTCCGCTGCCTTCAGCACCCGCCTGG
CCGGGCCCTTTCCCGCCACGCACTACAGCACCCCTGTGCAAGCCCGCGCCGCTCACAGGGACCTGGAGGTACGAG
TGGTGGGCTGCAGAGACCTCCCAGAGACCATCCCGTGGAAACCCTACCCCTCAATGGGGGGACCTGGGACCCAG
ACAGCCGCCCCCTTCTGAGCCGCCAGCCCGGGGCTTTACAGCCGAAGCGGAAGCCTCAGTGGCCGGAGCA
GCCTCAAAGCAGAAGCCGAGAACACCAGTGAAGTCAGCACTGTGCTTAAGCTGGATAACACAGTGGTGGGGCAGA
CGTCTTGGAAGCCATGTGGCCCCAATGCCTGGGACCAGAGCTTCACTCTGGAGCTGGAAAGGGCACGGGAACTGG
AGTTGGCTGTGTTCTGGCGGGACAGCGGGGCTGTGTGCCCTCAAATTCCTGAAGTTGGAGGATTTCTTGACA
ATGAGAGGCATGAGGTGCAGCTGGACATGGAACCCAGGGCTGCCTGGTGGCTGAGGTACCTTCCGCAACCTG
TCATTGAGAGGATTCTCGGCTCCGACGGCAGAAAGAAAATTTCTCCAAGCAGCAAGGGAAGGCGTTCCAGCGTG
CTAGGCAGATGAACATCGATGTGCCACGTGGGTGCGGCTGCTCCGGAGGCTCATCCCCAATGCCACGGGCACAG
GCACCTTTAGCCCTGGGGCTTCTCCAGGATCCGAGGCCCGGACCACGGGTGACATATCGGTGGAGAAGCTGAACC
TCGGCACTGACTCGGACAGCTCACCTCAGAAGAGCTCGCGGGATCCTCCTTCCAGCCCATCGAGCCTGAGCTCCC
CCATCCAGGAATCCACTGCTCCCGAGCTGCCTTCGGAGACCCAGGAGACCCAGGCCCGGCCCTGTGCAGCCCTC
TGAGGAAGTCACCTCTGACCCTCGAAGATTTCAAGTTCTGGCGGTGCTGGGCCGGGGTCATTTTGGGAAGGTGC
TCCTCTCCGAATTCCGGCCCAGTGGGGAGCTGTTCCGCATCAAGGCTCTGAAGAAAGGGGACATTGTGGCCCGAG
ACGAGGTGGAGAGCCTGATGTGTGAGAAGCGGATATTGGCGGCAGTGACCAGTGCGGGACACCCCTTCTGGTGA
ACCTCTTCGGCTGTTTCCAGACACCGGAGCACGTGTGCTTCGTGATGGAGTACTCGGCCGGTGGGGACCTGATGC
TGCACATCCACAGCGACGTGTTCTCTGAGCCCCGTGCCATCTTTTATTCGCCTGCGTGGTGTGGGCCTACAGT
TTCTTCACGAACACAAGATCGTCTACAGGGACCTGAAGTTGGACAATTTGCTCCTGGACACCGAGGGCTACGTCA
AGATCGCAGACTTTGGCCTCTGCAAGGAGGGGATGGGCTATGGGGACCGGACCAGCACATTCTGTGGGACCCCGG
AGTTCTGGCCCCCTGAGGTGCTGACGGACACGTCTGTACACGCGAGCTGTGGACTGGTGGGGACTGGGTGTGCTGC
TCTACGAGATGCTGGTTGGCGAGTCCCCATTCCCAGGGGATGATGAGGAGGAGGTCTTCGACAGCATCGTCAACG
ACGAGGTTTCGCTACCCCGCTTCTGTGCGCCGAAGCCATCGGCATCATGAGAAGGCTGCTTCGGAGGAACCCAG
AGCGGAGGCTGGGATCTAGCGAGAGAGATGCAGAAGATGTGAAGAAACAGCCCTTCTTCAGGACTCTGGGCTGGG
AAGCCCTGTTGGCCCCGGCGCTGCCACCGCCCTTTGTGCCACGCTGTCCGGCCGCACCGACGTACGCAACTTCG
ACGAGGAGTTACCGGGGAGGCCCCCACACTGAGCCCGCCCCGCGACGCGGGCCCCCTCACAGCCGCGGAGCAGG
CAGCCTTCTGGAATTCGACTTCGTGGCCGGGGGCTGCTAGCCCCCTCCCCTGCCCCCTGCCCCCTGCCCCG
AGAGCTCTTAGTTTTTAAAAAGGCCTTTGGGATTTGCCCG

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FIGURE 5304

MASDAVQSEPRSWSLLEQLGLAGADLAAPGVQQQLELERERLRREIRKELKLKEGAENLRRATTDLGRSLGPVEL
LLRGSSRRDLLHQQLQELHAHVLPDPAATHDGPQSPGAGGPTCSATNLSRVAGLEKQLAIELKVKQGAENMIQ
TYSNGSTKDRKLLLTAAQMLQDSKTKIDIIRMQLRRALQAGQLENQAAPDDTQGSPLDGAVELRIEELRHHFRVE
HAVAEGAKNVLRLLSAAKAPDRKAVSEAQEKLTESNQKLGLLREALERRLGELPADHPKGRLLREELAAASSAAF
STRLAGPFFPATHYSTLCKPAPLTGTLEVRVVGCRDLPETIPWNPTPSMGGPGTPDSRPPFLSRPARGLYSRSGSL
SGRSSLKAEAEANTSEVSTVLKLDNTVVGQTSWKPCGPNAWDQSFTLELERARELELAVFWRDQRGLCALKFLKLE
DFLDNERHEVQLDMEPQGCLVAEVTFRNPVIERIPRLRRQKKIFSKQQGKAFQRRARQMNIDVATWVRLRLRLIPN
ATGTGTFSPGASPGSEARTTGDISVEKLNLTGDSDSPQKSSRDPPSSPSSLSSPIQESTAPELPSETQETPGA
LCSPLRKSPLTLEDKFLAVLGRGHFGKVLLSEFRPSGELFAIKALKKGDIVARDEVESLMCEKRILAAVTSAGH
PFLVNLFGCFQTEPHVCFVMEYSAGGDLMLHIHSDVFSEPRAIIFYSACVVLGLQFLHEHKIVYRDLKLDNLLDIT
EGYVKIADFGLCKEGMGYGDRTSTFCGTPEFLAPEVLTDTSYTRAVDWWGLGVLLYEMLVGESPFPGDDEEEVFD
SIVNDEVRYPRFLSAEAIGIMRLLRRNPERRLGSSERDAEDVKKQPFRTLGWEALLARRLPPFPVPTLSGRTD
VSNFDEEFTGEAPTLSPPRDARPLTAAEQAAFLDFDFVAGGC

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FIGURE 5305

CACGGGGAGGCGGAGGCAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGCAGATCTTCTGGTGACCCAC
TTCTCGCTGCTCATGCCGCTGGGACTGGGGCGGCGGAAAAAGGCGCCCCCTCTAGTGGAAAATGAGGAGGCTGAG
CCAGGCCGTGGAGGGCTGGGCGTGGGGGAGCCAGGGCCTCTGGGCGGAGGTGGGTTCGGGGGGCCCCCAAATGGGC
TTGCCCCCCCCCTCCCCAGCCCTGCGGCCCCGCTCGTGTTCCACACCCAGCTGGCCCATGGCAGTCCCCTGAGC
CGCATCGAGGGCTTCACCAACGTCAAGGAGCTGTATGGCAAGATCGCCGAGGCCTTCCGCTGCCAACTGCCGAG
GTGATGTTCTGCACCCTGAACACCCACAAAGTGGACATGGACAAGCTCCTGGGGGGCCAGATCGGGCTGGAGGAC
TTCATCTTCGCCCACGTGAAGGGGCGAGCGCAAGGAGGTGGAGGTGTTCAAGTCGGAGGATGCACCTCGGGCTCACC
ATCACGGACAACGGGGCTGGCTACGCCTTCATCAAGCGCATCAAGGAGGGCAGCGTGATCGACCACATCCACCTC
ATCAGCGTGGGCGACATGATCGAGGCCATTAACGGGCAGAGCCTGCTGGGCTGCCGGCACTACGAGGTGGCCCGG
CTGCTCAAGGAGCTGCCCCGAGGCCGTACCTTCACGCTGAAGCTCACGGAGCCTCGCAAGGCCTTCGACATGATC
AGCCAGCGTTCAGCGGGTGGCCGCCCTGGCTCTGGCCCACTGGGCACTGGCCGAGGGACCCTGCGGCTCCGA
TCCCGGGGCCCCGCCACGGTGGAGGATCTGCCCTCTGCCTTTGAAGAGAAGGCCATTGAGAAGGTGGATGACCTG
CTGGAGAGTTACATGGGTATCAGGGACACGGAGCTGGCGGCCACCATGGTGGAGCTGGGAAAGGACAAAAGGAAC
CCGGATGAGCTGGCCGAGGCCCTGGACGAACGGCTGGGTGACTTTGCCCTCCCTGACGAGTTCGTCTTTGACGTC
TGGGGCGCCATTGGGGACGCCAAGGTCGGCCGCTACTAGGACTGCCCCCGGACCCTGCGATGATGACCCGGGCGC
AACCTGGTGGGGGCCCCCAGCAGGGACACTGACGTCAGGACCCGAGCCTCCAGCCTGAGCCTAGCTCAGCAGCCC
AAGGACGATGGTGAGGGGAGGTGGGGCCAGGCCCCCTGCCCCGCTCCAATCGGTACCATCCCCCTCCCTGGTTCCC
AGTCTGGCCGGGGTCCCCGGCCCCCTGTGCCCTGTTCCCCACCTACCTCAGCTGGGTGAGGCACAGGGAGGGGA
GGGATCAGCCAAATTGGGCGGCCACCCCCGCTCCACCACTTTCCACCATCAGCTGCCAACTGGTCCCTCTGTC
TCCCTGGGGCCTTGGGTTCTGTTTGGGGGTATGACCTTCTAGTTTCTGACGCAGGGAATACAGGGGAGAGGG
TTGTCCTTCCCCCAGCAAATGCAATAATGCCCTCACCCCTCCTGAGAGGAGCCCCCTCCCTGTGGAGCCTGTTA
CCTCCGCATTGACACGAGTCTGCTGTGAACCCCGCAACCTCCTCCCCACCTCCCATCTCTCCTTCCAGGCCCAT
CCCTGGCCCAGAGCAGGAGGGAGGGAGGGACGATGGCGGTGGGTTTTTGTATCTGAATTGCTGTCTTGAACATA
AAGAACTCTATCTGCTGTT

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FIGURE 5306

MPLGLGRRKKAPPLVENEEAEPGRGGLGVGEPGLGGGSGGPQMGLPPPPPALRPRLVFHTQLAHGSPTGRIEG
FTNVKELYGKIAEAFRLPTAEVMFCTLNTHKVDMDKLLGGQIGLEDFIFAHVKGQRKEVEVFKSEDALGLTITDN
GAGYAFIKRIKEGSVIDHIHLISVGDMIEAINGQSLLGCRHYEVARLLKELPRGRTFTLKLTEPRKAFDMISQRS
AGGRP GSGPQLGTGRGTLRLRSRGPATVEDLPSAFEKAIEKVDDLLESYMGIRDTELAATMVELGDKRNPDEL
AEALDERLGDFAFPDEFVFDVWGAIGDAKVGRY

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FIGURE 5307

GTTTAGTCTATCGCTGCGGTTGCGAGCGCTGTAGGGAGCCTGTGCTGTGCCGCGCAGTTAGGCAGCAGCAGCCGC
GGAGCAGTAGCCGCCGTGGGAGGGAGCCATGAAGCATTACGAGGTGGAGATTCTGGACGCAAAGACAAGGGAGAA
GCTGTGTTTCTTGGACAAGGTGGAGCCCCACGCCACCATTGCGGAGATCAAGAACCTCTTCACTAAGACCCATCC
GCAGTGGTACCCCGCCCGCCAGTCCCTCCGCCTGGACCCCAAGGGCAAGTCCCTGAAGGATGAGGATGTTCTGCA
GAAGCTGCCCCGTGGGCACCACGGCCACACTGTACTTCCGGGACCTGGGGGGCCAGATCAGCTGGGTGACGGTCTT
CCTAACAGAGTACGCGGGGGCCCCCTTTTCATCTACCTGCTCTTCTACTTCCGAGTGCCCTTCATCTATGGCCACAA
ATATGACTTTACGTCCAGTCGGCATAACAGTGGTGCACCTCGCCTGCATCTGTCACTCATTCCACTACATCAAGCG
CCTGCTGGAGACGCTCTTCGTGCACCGCTTCTCCCATGGCACTATGCCTTTGCGCAACATCTTCAAGAACTGCAC
CTACTACTGGGGCTTCGCCGCGTGGATGGCCTATTACATCAATCACCTCTCTACACTCCCCCTACCTACGGAGC
TCAGCAGGTGAAACTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCG
GGACCTGCGGCCCCGTGGGTCCAAGACGCGGAAGATCCCATACCCACCAAGAACCCCTTCACGTGGCTCTTCCT
GCTGGTGTCTGCCCCAACTACACCTACGAGGTGGGGTCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCC
AGTGGCCCTGTCTCCCTGGTGGGCTTCACCCAGATGACCATCTGGGCAAGGGCAAGCACCGCAGCTACCTGAA
GGAGTTCCGGGACTACCCGCCCTGCGCATGCCATCATCCCCTTCCTGCTCTGAGCGCTCACCCCTGCTGAGGC
TCAGCCCCTCAACCCGGTGGCATTCTGGGGGAGGAGTGGGGGCCACAGCTCTCCAGCACCCGGAATAAAGCCCGC
CTGCCCCAGTC

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FIGURE 5308

GGCACGAGGCGGGGCGCCGCTGAGCCAAGTGGGCCACCCGGGCACGGCCACGCTCCCGGGTCACGTGACACGGAG
GGGGCCGAATTCTGCTGGAGGCAGCGCCATATCCTGGAGGTGAAGGTACCACTCATGGAGACCCCCGCGGCCGC
CGCCCCCGCTGGGAGCTTATTCCCCTCCTTCTGCTCCTGGCCTGCGGGACGCTGGTGGCCGCTTGTGGGCGC
CGCTCACCGCCTGGGGCTCTTCTATCAGCTGCTGCACAAGGTGGACAAGGCAAGCGTCCGGCATGGCGGAGAGAA
CGTGGCCGCTGTGCTGAGGGCCCATGGTGTGCGGTTTCATCTTACGCTGGTGGTGGGCACATTTCCCCGCTGCT
GGTGGCCTGTGAGAACTGGGCATCCGTGTGGTGGACACACGCCATGAGGTACAGGCCGCTTTGTGCTGATGC
TATGGCCCGCTGTCCGGGACGGTGGGCGTGGCGGCAGTGACAGCAGGCCCTGGCCTACCAACACGGTGACTGC
GGTGAAGAATGCTCAGATGGCTCAGTCCCCAATCCTGCTTCTGGGTGGGGCTGCCAGCACTCTGCTGCAGAACCG
GGGTGCGCTCCAGGCTGTTGATCAGCTGTCCCTTTTCCGGCCACTCTGTAAGTTTTGTGTGCTGTGCGGAGGGT
GCGGGACATTGTGCCACCCTGAGGGCCGCGATGGCTGCCGCCAGTCGGGCACCCAGGTCCGGTGTGTTGTGGA
GCTGCCCCGTTGACGTGCTGTACCCCTACTTCATGGTCCAGAAGGAGATGGTGCCAGCCAAGCCACCCAAGGGCCT
CGTGGGCCGAGTGGTCTCCTGGTATTTAGAGAATTACCTGGCCAACCTCTTTGCAGGAGCCTGGGAGCCTCAGCC
CGAGGGACCGCTGCCCTGGACATCCCCAGGCTTCCCCGAGCAGGTTTCAGCGCTGTGTGGAGATCCTGAGCCG
GGCCAAGAGGCCTCTGATGGTGTGTTGGGAGTACAGGCCCTGCTACCCCCAACGTCTGCCGACAAGCTTCGGGCTGC
CGTGGAGACCTTGGGTGTTCCCTGCTTCCTTGGAGGGATGGCACGGGGGCTGTTAGGCCGCAACCACCCCTCCA
CATCCGGGAGAACCGCAGTGGGCCCTGAAGAAGGCGGACGTCATTGTCTAGCAGGAACTGTGTGTGACTTCCG
CCTATCCTATGGCCGTGTCTCAGCCACAGCAGCAAGATCATCATCGTCAATCGTAATCGGGAAGAGATGTTGCT
CAACTCAGACATCTTCTGGAAGCCCCAGGAGGCTGTGCAGGGAGATGTGGGTTCCCTTCGTGCTGAAGTTAGTGGA
GGGCCTTCAGGGCCAGACCTGGGCCCCAGACTGGGTGGAGGAGCTGCGGGAAGCCGACCGGCAGAAGGAGCAGAC
CTTTCCGGGAGAAGGCAGCGATGCCTGTGGCCCAGCACCTGAACCCAGTGCAGGTGCTGCAGCTGGTGGAGGAAAC
GCTACCTGACAACTCAATTCTGGTGGTGGATGGCGGGGACTTCGTGGGCACTGCTGCCCATCTGGTACAGCCCCG
CGGCCCCCTGCGCTGGCTCGATCCTGGGGCCTTTGGGACTCTGGGAGTTGGTGCAGGATTGCACTTGGGGCCAA
GCTGTGCCGGCCAGATGCTGAGGTCTGGTGCCTGTTTGGGGACGGAGCTTTTGGCTACAGCCTCATCGAATTTGA
TACATTGCTCAGACACAAGATCCCAGTGATGGCCTTGGTAGGGAATGATGCTGGCTGGACACAGATTTCTCGGGA
GCAGGTGCCCTCTCTGGGCAGCAACGTGGCCTGTGGCCTGGCCTACACTGATTATCACAAGGCAGCCATGGGTCT
GGGGGCCCCGGGCTTGCTGCTCTCACGGGAGAACGAGGATCAGGTGGTCAAGGTGCTGCACGATGCCAGCAGCA
GTGCCGAGACGGCCACCCGGTTGTGGTCAACATCCTCATTGGGAGGACGGACTTCCGCGATGGCTCCATTGCTGT
ATAGGGCCTTGTGGGTGAGGACGCTTGGCTGCCTTCCCTCCCCCTGGACTGTGTCCAGCTGGTTTGGAGTCTCATC
ATTGCTTGCCCTGGGCCTATCCCATGAGGCCAGTGACTCCACAACCTCCCTGAGGAGGGGATGGAGGGGTCAA
TCTCAGAGAGGCTCTTGTGAGCTCTTGGACCCTCCTCTTACGGACCCAACGTGTCCGTTTGTCCCCTCTCTT
ATGGAGACTGAATAAACCACTCTGGCCCATGTAGGCCCAAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5309

METPAAAAPAGSLFPSFLLLACGTLVAALLGAAHRLGLFYQLLHKVDKASVRHGGENVAAVLRAHGVRFI FTLVG
GHISPLL VACEKLGIRVVDTRHEVTAVFAADAMARLSGTVGVAAVTAGPGLTNTVTAVKNAQMAQSPILLGGAA
STLLQNRGALQAVDQLSLFRPLCKFCVSVRRVRDIVPTLRAAMAAAQSGTPGPVFVELPVDVLYPYFMVQKEMVP
AKPPKGLVGRVVSWYLENYLANLFAGAWEPQPEGPLPLDIPQASPQQVQRCVEILSRAKRPLMVLGSQALLTPTS
ADKLRAAVETLGVPCFLGGMARGLLGRNHPLHIRENRS AALKKADVIVLAGTVCDFRLSYGRVLSHSSKIIIVNR
NREEMLLNSDIFWKPQEAVQGDVG SFVLKLVEGLQGQ TWAPDWVEELREADRQKEQTFREKAAMPVAQHLNPVQV
LQLVEETLPD NSILVVDGGDFVGTA AHLVQPRGPLRWLDPGAFGTLGVGAGFALGAKLCRPDAEVWC LFGDGAFG
YSLIEFDTFVRHKIPVMALVGNDAGWTQISREQVPSLGSNVACGLAYTDYHKAAMGLGARGLLLSRENEDQVVKV
LHDAQQQCRDGHVPVVN ILIGRTDFRDGSI AV

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FIGURE 5310A

GCGGCGCGGAGGCTGGCCCCGGGACGCGCCCGGAGCCAGGGAAGGAGGGAGGAGGGGAGGGTTCGCGGCCGGCCGC
CATGGGGCCGGGGGCCCCGTGGCCGCGCGCCGCGCCGCTCGCCCCGATGTGCGCCGCCACCGCCACCGCCACCCGTGCG
GGCGCTGCCCCCTGCTGCTGCTAGCGGGGCGGGGGCTGCAGCCCCCCTTGCCCTGGACGGAAGCCCGTGTGC
AAATGGAGGTGCTTGCACCCAGCTGCCCTCCCGGGAGGCTGCCTGCCTGTGCCCCGCTGGCTGGGTGGGTGAGCG
GTGTGAGCTGGAGGACCCCTGTCACTCAGGCCCCGTGTGCTGGCCGTGGTGTCTGCCAGAGTTCAGTGGTGGCTGG
CACCGCCCGATTCTCATGCCGTGCCCCGTGGCTTCCGAGGCCCTGACTGCTCCCTGCCAGATCCCTGCCTCAG
CAGCCCTTGTGCCACGGTGCCCGTGTCTAGTGGGGCCCCGATGGACGCTTCCTCTGCTCCTGCCACCTGGCTA
CCAGGGCCCGCAGCTGCCGAAGCGACGTGGATGAGTGCCGGGTGGGTGAGCCCTGCCGCCATGGTGGCACCTGCCT
CAACACACCTGGCTCCTTCCGCTGCCAGTGTCCAGCTGGCTACACAGGGCCACTATGTGAGAACCCCGCGGTGCC
CTGTGCACCCCTACCATGCCGTAACGGGGGCACCTGCAGGCAGAGTGGCGACCTCACTTACGACTGTGCCTGTCT
TCCTGGGTTTGAGGGTCAGAATTGTGAAGTGAACGTGGACGACTGTCCAGGACACCGATGTCTCAATGGGGGGAC
ATGCGTGGATGGCGTCAACACCTATAACTGCCAGTGCCCTCCTGAGTGGACAGGCCAGTTCGTGCACGGAGGACGT
GGATGAGTGTGAGCTGCAGCCCAACGCCTGCCACAATGGGGGTACCTGCTTCAACACGCTGGGTGGCCACAGCTG
CGTGTGTGTCAATGGCTGGACAGGCGAGAGCTGCAGTCAAGATATCGATGACTGTGCCACAGCCGTGTGCTTCCA
TGGGGCCACCTGCCATGACCGCGTGGCTTCTTTCTACTGTGCCTGCCCCATGGGCAAGACTGGCCTCCTGTGTCA
CCTGGATGACGCTGTGTGTCAGCAACCCCTGCCACGAGGATGTATCTGTGACACAAATCCGGTGAACGGCCGGGC
CATTTGCACCTGTCTCCCGGCTTCACGGGTGGGGCATGTGACCAGGATGTGGACGAGTGTCTATCGGCGCCAA
CCCCTGCGAGCACTTGGGCAGGTGCGTGAACACGAGGGCTCCTTCTGTGCCAGTGCAGTGTGGCTACACTGG
ACCTCGCTGTGAGACCGATGTCAACGAGTGTCTGTGCGGGCCCTGCCGAAACAGGCCACGTGCCTCGACCGCAT
AGGCCAGTTCACCTGTATCTGTATGGCAGGCTTCACAGGAACCTATTGCGAGGTGGACATTGACGAGTGTGAGAG
TAGCCCCCTGTGTCAACGGTGGGGTCTGCAAGGACCGAGTCAATGGCTTCAGCTGCACCTGCCCTCGGGCTTCAG
CGGCTCCACGTGTGAGCTGGACGTGGACGAATGCCAGCACGCCCTGCAGGAATGGCGCCAAATGCGTGGACCA
GCCCCGATGGCTACGAGTGCCGCTGTGCCGAGGGCTTTGAGGGCACGCTGTGTGATCGCAACGTGGACGACTGCTC
CCCTGACCCATGCCACCATGGTGCCTGCGTGGATGGCATGCCAGCTTCTCATGTGCCTGTGCTCCTGGCTACAC
GGGCACACGCTGCGAGAGCCAGGTGGACGAATGCCGAGCCAGCCCTGCCGCCATGGCGGCAATGCCTAGACCT
GGTGGACAAGTACCTCTGCCGCTGCCCTTCTGGGACCACAGGTGTGAACTGCGAAGTGAACATTGACGACTGTGC
CAGCAACCCCTGCACCTTTGGAGTCTGCCGTGATGGCATCAACCGCTACGACTGTGTCTGCCAACCTGGCTTCAC
AGGGCCCCCTTTGTAACGTGGAGATCAATGAGTGTGCTTCCAGCCCATGCGGCGAGGGAGGTTTCTGTGTGGATGG
GGAAAAATGGCTTCCGCTGCCTCTGCCGCTGGCTCCTTGCCCCCACTCTGCCTCCCCCGAGCCATCCCTGTGC
CCATGAGCCCTGCAGTACGGCATCTGCTATGATGCACCTGGCGGGTTCGCTGTGTGTGAGCCTGGCTGGAG
TGGCCCCCGCTGCAGCCAGAGCCTGGCCGAGACGCCTGTGAGTCCAGCCGTGCAGGGCCGGTGGGACATGCAG
CAGCGATGGAATGGGTTTCCACTGCACCTGCCCGCCTGGTGTCCAGGGACGTGAGTGTGAATCCTCTCCCCCTG
CACCCCGAACCCCTGTGAGCATGGGGGCGCTGCGAGTCTGCCCTGGCCAGCTGCCTGTCTGCTCCTGCCCCCA
GGGCTGGCAAGGCCACGATGCCAGCAGGATGTGGACGAGTGTGCTGGCCCCGCACCTGTGGCCCTCATGGTAT
CTGCACCAACCTGGCAGGGAGTTTCAGCTGCACCTGCCATGGAGGGTACACTGGCCCTTCTGCGATCAGGACAT
CAATGACTGTGACCCCAACCCATGCCTGAACGGTGGCTCGTGCCAAGACGGCGTGGGCTCCTTTCTGCTCCTG
CCTCCCTGGTTTCGCCGGGCCACGATGCCCGCGCATGTGGATGAGTGCCTGAGCAACCCCTGCGGCCCGGGCAC
CTGTACCGACCACGTGGCCTCCTTCACCTGCACCTGCCCGCCAGGCTACGGAGGCTTCCACTGCGAACAGGACCT
GCCCCGACTGCAGCCCCAGCTCCTGCTTCAATGGCGGGACCTGTGTGGACGGCGTGAATCGTTGAGTGCCTGTG
CCGTCCCGGCTACACAGGAGCCCACTGCCAACATGAGGCAGACCCCTGCCTCTCGCGGCCCTGCCTACACGGGGG
CGTCTGCAGCGCCGCCCACCTGGCTTCCGCTGCACCTGCCTCGAGAGCTTCACGGGGCCGAGTGCCAGACGCT
GGTGGATTGGTGCAGCCGCCAGCCTTGTCAAAACGGGGGTGCTGCGTCCAGACTGGGGCCTATTGCCTTTGTCC
CCCTGGATGGAGCGGACGCCTCTGTGACATCCGAAGCTTGCCCTGCAGGGAGGCCGAGCCAGATCGGGGTGCG
GCTGGAGCAGCTGTGTGAGCGGGTGGGCAGTGTGTGGATGAAGACAGCTCCCACTACTGCGTGTGCCAGAGGG
CCGTAAGTGGTAGCCACTGTGAGCAGGAGGTGGACCCCTGCTTGGCCCCAGCCCTGCCAGCATGGGGGGACCTGCCG
TGGCTATATGGGGGGCTACATGTGTGAGTGTCTTCTGGCTACAATGGTGATAACTGTGAGGACGACGTGGACGA
GTGTGCCTCCAGCCCTGCCAGCACGGGGGTTTCATGCATTGACCTCGTGGCCCGCTATCTGTCTCCTGTCCCCC
AGGAACGCTGGGGGTGCTCTGCGAGATTAATGAGGATGACTGCGGCCAGGCCACCGCTGGACTCAGGGCCCCG

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FIGURE 5310B

GTGCTACACAATGGCACCTGCGTGGACCTGGTGGGTGGTTTCCGCTGCACCTGTCCCCCAGGATACACTGGTTT
GCGCTGCGAGGCAGACATCAATGAGTGTCGCTCAGGTGCCTGCCACGCGGCACACACCCGGGACTGCCTGCAGGA
CCCAGGCGGAGGTTTCCGTTGCCTTTGTCATGCTGGCTTCTCAGGTCTCGCTGTCAGACTGTCCTGTCTCCCTG
CGAGTCCCAGCCATGCCAGCATGGAGGCCAGTGCCGTCCTAGCCCGGGTCTGGGGGTGGGCTGACCTTCACCTG
TCACTGTGCCCAGCCGTTTCTGGGGTCCGCGTTGCGAGCGGGTGGCGCGCTCCTGCCGGGAGCTGCAGTGCCCGGT
GGGCGTCCCATGCCAGCAGACGCCCCGCGGGCCGCGCTGCGCCTGCCCCCAGGGTTGTGCGGACCCCTCTGCCG
CAGCTTCCCGGGGTGCGCGCCGGGGGCCAGCAACGCCAGCTGCGCGGCCGCCCCCTGTCTCCACGGGGGCTCCTG
CCGCCCCGCGCCGCTCGCGCCCTTCTTCCGCTGCGCTTGCGCGCAGGGCTGGACCGGGCCGCGCTGCGAGGCGCC
CGCCGCGGCACCCGAGGTCTCGGAGGAGCCGCGGTGCCGCGCGCCGCTGCCAGGCCAAGCGCGGGGACCAGCG
CTGCGACCGCGAGTGCAACAGCCAGGCTGCGGCTGGGACGGCGGCGACTGCTCGCTGAGCGTGGGCGACCCCTG
GCGGCAATGCGAGGCGCTGCAGTGCTGGCGCTCTTCAACAACAGCCGCTGCGACCCCGCTGCAGCTCGCCCGC
CTGCTCTACGACAACCTCGACTGCCACGCCGTTGGCCGCGAGCGCACTTGCAACCCGGTGTACGAGAAGTACTG
CGCCGACCACTTTGCCGACGGCCGCTGCGACCAGGGCTGCAACACGGAGGAGTGCGGCTGGGATGGGCTGGATTG
TGCCAGCGAGGTGCCGGCCCTGCTGGCCCGCGCGTGTGTTGCTCACAGTGCTGCTGCCGCCAGAGGAGCTACT
GCGTTCAGCGCCGACTTTCTGCAGCGGCTCAGCGCCATCTGCGCACCTCGCTGCGCTTCCGCTGGACGCGCA
CGGCCAGGCCATGGTCTTCCCTTACCACCGGCCTAGTCTGGCTCCGAACCCGGGCCCCGTCGGGAGCTGGCCCC
CGAGGTGATCGGCTCGGTAGTAATGCTGGAGATTGACAACCGCTCTGCCTGCAGTCGCTGAGAATGATCACTG
CTTCCCCGATGCCAGAGCGCCGCTGACTACCTGGGAGCGTTGTAGCGGTGGAGCGCCTGGACTTCCCGTACCC
ACTGCGGGACGTGCGGGGGGAGCCGCTGGAGCCTCCAGAACCAGCGTCCCGCTGCTGCCACTGCTAGTGGCGGG
CGCTGTCTTGCTGCTGGTCAATTCTCGTCTGGGTGTATGGTGGCCCGCGCAAGCGCGAGCACAGCACCCCTCTG
GTTCCCTGAGGGCTTCTCACTGCACAAGGACGTGGCCTCTGGTCAACAAGGGCCGCGCGGAACCCGTGGGCCAGGA
CGCGCTGGGCATGAAGAACATGGCCAAGGGTGAGAGCCTGATGGGGGAGGTGGCCACAGACTGGATGGACACAGA
GTGCCCAGAGGCCAAGCGGCTAAAGGTAGAGGAGCCAGGCATGGGGGCTGAGGAGGCTGTGGATTGCCGTCACTG
GACTCAACACCATCTGGTTGCTGCTGACATCCGCGTGGCACCAGCCATGGCACTGACACCACCACAGGGCGACGC
AGATGCTGATGGCATGGATGTCAATGTGCTGGCCAGATGGCTTACCCCGCTAATGCTGGCTTCTTCTGTGG
GGGGGCTCTGGAGCCAATGCCAACTGAAGAGGATGAGGCAGATGACACATCAGCTAGCATCATCTCCGACCTGAT
CTGCCAGGGGGCTCAGCTTGGGGCACGGACTGACCGTACTGGCGAGACTGCTTTGCACCTGGCTGCCCCGTTATGC
CCGTGCTGATGCAGCCAAGCGGCTGCTGGATGCTGGGGCAGACACCAATGCCAGGACCACTCAGGCCGCACTCC
CCTGCACACAGCTGTACAGCCGATGCCAGGGTGTCTTCCAGATTCTCATCCGAAACCGCTCTACAGACTTGGA
TGCCCGCATGGCAGATGGCTCAACGGCACTGATCCTGGCGGCCCGCCTGGCAGTAGAGGGCATGGTGGAGAGCT
CATCGCCAGCCATGCTGATGTCAATGCTGTGGATGAGCTTGGGAAATCAGCCTTACACTGGGCTGCGGCTGTGAA
CAACGTGGAAGCCACTTTGGCCCTGCTCAAAAATGGAGCCAATAAGGACATGCAGGATAGCAAGGAGGAGACCCC
CCTATTCTGGCCGCGGAGGGCAGCTATGAGGCTGCCAAGCTGCTGTTGGACCACTTTGCCAACCGTGAGAT
CACCGACCACCTGGACAGGCTGCCGCGGGACGTAGCCCAGGAGAGACTGCACCAGGACATCGTGCGCTTGCTGGA
TCAACCCAGTGGGCCCCGACGCCCCCGGTCCCCACGGCCTGGGGCCTCTGCTCTGTCTCCAGGGGGCCTTCTCT
CCCTGGCCTCAAAGCGGCACAGTCGGGGTCCAAGAAGAGCAGGAGGCCCCCGGGAAGGCGGGGCTGGGGCCGCA
GGGGCCCCGGGGGCGGGGCAAGAAGCTGACGCTGGCCTGCCGGGGCCCCCTGGCTGACAGCTCGGTACGCTGTC
GCCCCTGGACTCGCTGGACTCCCCGCGGCTTTCCGTGGGCCCCCTGCTTCCCCTGGTGGCTTCCCCCTTGAGGG
GCCCTATGCAGCTGCCACTGCCACTGCAGTGCTCTGGCACAGCTTGGTGGCCAGGCGGGGCGGGTCTAGGGCG
CCAGCCCCCTGGAGGATGTGTACTCAGCCTGGGCTGCTGAACCCTGTGGCTGTGCCCCCTCGATTGGGCCCCGGCT
GCCCCACCTGCCCCCTCAGGCCCCCTCGTTCTGTGCTGCCACTGGCGCCGGGACCCCAGCTGCTCAACCCAGGGAC
CCCCGTCTCCCCGAGGAGCGGCCCCCGCCTTACCTGGCAGTCCAGGACATGGCGAGGAGTACCCGGCGGGCTGG
GGCACACAGCAGCCCCCAAAGGCCCGCTTCTGCGGGTTCAGTGAGCACCCCTTACCTGACCCCCATCCCCCGA
ATCCCCCTGAGCACTGGGCCAGCCCCCTCACCTCCCTCCCTCTCAGACTGGTCCGAATCCACGCCTAGCCAGCCAC
TGCCACTGGGGCCATGGCCACCACCACTGGGGCACTGCCTGCCAGCCACTTCCCTTGTCTGTTCCAGCTCCCT
TGCTCAGGCCAGACCCAGCTGGGGCCCCAGCCGGAAGTTACCCCAAGAGGCAAGTGTGGCCTGAGACGCTCG
TCAGTTCTTAGATCTTGGGGGCTAAAGAGACCCCCGTCTGCCTCCTTTCTTTCTGTCTCTTCTCTCTTTT
AGTCTTTTTTCATCCTCTTCTCTTTCCACCAACCCTCCTGCATCCTTGCTTGAGCGTGACCGAGATAGGTCATC

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FIGURE 5310C

AGCCCAGGGCTTCAGTCTTCCTTTATTTATAATGGGTGGGGGCTACCACCCACCCTCTCAGTCTTGTGAAGAGTC
TGGGACCTCCTTCTTCCCCACTTCTCTCTCCCTCATTCTTTCTCTCTCCTTCTGGCCTCTCATTTCCTTACAC
TCTGACATGAATGAATTATTATTATTTTATTTTCTTTTTTTTTTTTACATTTTGTATAGAAACAAATTCATTTA
AACAAACTTATTATTATTATTTTACAAAATATATATATGGAGATGCTCCCTCCCCCTGTGAACCCCCCAGTGC
CCCCGTGGGGCTGAGTCTGTGGGCCCATTGGGCCAAGCTGGATTCTGTGTACCTAGTACACAGGCATGACTGGGA
TCCCGTGTACCGAGTACACGACCCAGGTATGTACCAAGTAGGCACCCTTGGGCGCACCCACTGGGGCCAGGGGTC
GGGGGAGTGTTGGGAGCCTCCTCCCCACCCACCTCCCTCACTTCACTGCATTCCAGATGGGACATGTTCCATAG
CCTTGCTGGGGAAGGGCCCCTGCCAACCTCCCTCTGCCCCAGCCCCACCCTTGGCCATCTCCCTTTGGGAACTAG
GGGGCTGCTGGTGGGAAATGGGAGCCAGGGCAGATGTATGCATTCCCTTTGTGTCCCTGTAAATGTGGGACTACAA
GAAGAGGAGCTGCCTGAGTGGTACTTTCTCTTCTGGAATCCTCTGGCCCAGCCTCATGGCAGAATAGAGGTAT
TTTTAGGCTATTTTGTAAATATGGCTTCTGGTCAAAATCCCTGTGTAGCTGAATTCCCAAGCCCTGCATTGTACA
GCCCCCACTCCCTCACCACCTAATAAAGGAATAGTTAACTC

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FIGURE 5311

CTTTTCACAAGATGGTGCCGAAAGTGAAGAAGGAAGCTCCTGCCCCCTCCTAAAGCCGAAGCCAAAGCGAAGGCTT
TAAAGGCCAAGAAGGCAGTGTGAAAGGTGTCCACAGCCACAAAAAGAAGATCCACACGTCACCCACCTTCCGGC
GGCCGAAGACACTGCGACTCCGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGGAGAAACAAGCTTGACC
ACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACACTTGTGT
TCATTGTGGATGTTAAAGCCAACAAGCACCAGATCAAACAGGCTGTGAAGAAGCTCTATGACATTGATGTGGCCA
AGGTCAACACCCTGATTTCGGCCTGATGGAGAGAAGAAGGTATATGTTGACTGACTCCTGATTACGATGCTTTGG
ATGTTGCCAACTATATCTTTTCACCATATACATGCCTCTCTGTCAATTTCTGGTTGGGCTGGGAGGCCACACACA
GACACTGACATGACAGGGCTTGGGCAAGACTCCTGTTCTACTTATCCTTTTGAAATATTACCCCTGCCA

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FIGURE 5312

GAGCCCAGCCGAGCGTCCGCCGCTGCCCGTGC GCCTCTGCGCTCCGCGCCATGGCCGGCCTCAACTCCCTGGAGG
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCTGCAGCGGG
AGCTGGACGGCGAGCGCGAGCGGCGCGAGAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTCAGG
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG
TCATCCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGCGGAGGTGTCTGAACTAAAATGTGGTGACCTGGAAG
AAGAACTCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA
AATATGAAGAAGAAATTAACTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA
CGGTTGCAAACTGGAAAAGACAATTGATGACCTGGAAGAGAACTTGCCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAAACGAACTTAAGTATATATAAGCAAAACAGAAGAGTCTTGTTCCAACAG
AAACTCTGGAGCTCCGTGGGTCTTTCTCTTCTCTTGTAAAGAGTTCTTTTGTATTGCCATCTTCGCTTTGCTG
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCACCAGTTAAATCTCA
TTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTTCAGCTCTCTTATTTTTTTCCTTAAGTAGCATTATTCCT
AAGGTAGGCAGGGTATTTCCTAGTAAGCATACTTTCTTAAGACGGAGGCCATTGTTTCTGGGAGAATAGGCAG
CCCCACACTTTGAAGAATACAGACCCAGTATCTAGTCGTGGATATAATTAAAACGCTGAAGACCATAACCTTTT
GGGTCAACTGTTGGTCAAATATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT
AAAAGGACTGGTGGGGGCCGGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCTT
CATTCTAAAAGTTGTTCCCTGGCCGGGAGCGTTTGCTTTGCGCTGTAATCCCAACACTTTGGGAGGCCAGGACAGA
TCACTTGAGGTCAGGAGTTCGAGACCAGCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATT
ATGGTGACGCCTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAG
ACTGCAGTGAGCCGATATCGCACACAGCGCTCCAGCCTGGTCGACAGAGTGAGACTCCATCTCAAGAAAAATA
AAAAATAAAGTTGTTCTCTGAAGAGCAAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGGAGTTC
AGTCCAATTCAGGTCAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTTATCTATTA
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAAACTGGCCCAACTTCATTTCCTACTTCAGGGAACAGCAAAT
TGAGGATTTACTTATCTAGGACTT

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FIGURE 5313

MAGLNSLEAVKRKIQALQQQADEAEDRAQGLQRELDGERERREKAEGDVAALNRRIQLVEEELDRAQERLATALQ
KLEEAekaADESERGMKVienRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEEERAES
ELKCGDLEEEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDLKLA
QAKEENVGLHQTLTDQTLNELNCI

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FIGURE 5314

GCTCGGTGCTGATGGACGGTGCTGGTGGCCAGTGGAGAGGCGCTGGCCGCACTTCCCGTCGGGGAGAGAGTGTAAT
TATGGCGAAGACCTACGATTACCTGTTCAAGCTGCTGCTGATCGGGGACTCGGGGGTGGGGAAGACCTGTGTCCCT
GTTCCGCTTCTCCGAGGACGCCTTCAACTCCACTTTTATCTCCACCATAGGAATTGACTTTAAAAATTAGGACCAT
AGAGCTCGATGGCAAGAGAATTAAACTGCAGATATGGGACACAGCCGGTCAGGAACGGTTTCGGACGATCACAAAC
GGCCTACTACAGGGGTGCAATGGGCATCATGCTGGTCTACGACATCACCAACGAGAAGTCCTTCGACAACATCCG
GAACTGGATTGCGAAACATTGAGGAGCACGCCTCTGCAGACGTCGAAAAGATGATACTCGGGGAACAAGTGTGATGT
GAATGACAAGAGACAAGTTTCCAAGGAACGGGGAGAAAAGCTGGCCCTCGACTATGGAATCAAGTTCATGGAGAC
CAGCGCGAAGGCCAACATCAATGTGGAATAATGCATTTTTTCACTCTCGCCAGAGATATCAAAGCAAAAAATGGACAA
AAAATTGGAAGGCAACAGCCCCAGGGGAGCAACCAGGGAGTCAAAATCACACCGGACCAGCAGAAGAGGAGCAG
CTTTTTCCGATGTGTTCTTCTCT**GTGA**GGAACACCGCCTTACTCTGAGCCTCGCTCAGCCCAGCTGACTGTGCCTGT
TCTGAGTGAGCCCCCTCACTCAGCCGGGGCCCTCCACCTCCAACGCCCCGCCACGCCGCGCCACCGGGCCAC
GGCCACCAGAATGCAATTGAGAAATCGTTTATTTTAGTAAGTGTCTGATCTTTTTCACTTTGGAGATGGAATAA
GTTAAAAATTTGCTATTTTTCCTGTAACATCTGCTGAACGGGGCCACCCACACGTTGTATATTCAGAGAGAGAGA
GGGAGTCAAGGTGTGACCGTCGACCACAGCCAGTGTGAGGCCTCTGCCTCTGGGCCTTTGCTTTGTGGCCTCACT
GCAACACAAAGCTCCACCAGGAGGCTGGTTACGTCCCCTACCACGGAAGCGAGGTCCAGAAAGGCCAGCGGTGG
TTCCAGGAGCAACAGCTCCCAAACCTGAGCAAGGCAACCGATCGCCAGGACCAGGAAGCATCACCCAGGAGATT
TGGCGCCCACTTCCACCTCTTCTCTCAGTTTTTGGACAAGTGACAAACCATTTTGCCCCCTCACTCTTCTTTTTTA
ACTGTTAAACCAAAGGAAAGCACAAATGAAGGAAATCCTGTGTAAAGCATTGAGAAGGAAAGAAGCCTGGAGCAG
CCTCTCCTGTCCACAGCCAGGGGTTAGGTCTGCAGGCCCGTCTGCGGTCCCCATCGAGCATCAAGGGGACGCTGT
GTGTGCTGCAAGTGACCCCGAAAACAACCACAGCCGTCACATGGTCCTCCTGAAAGTTGGGGGCACCCCTCCTCTCAG
CACCAAAATGGCCCCCACTCCTTCGTGTCTCTCCGCTATCTCCAAATCGGACGTTCTTTCTAGCTGAGATTTTTTA
TTTTTCCACATCTGTAGTGCCATGAAGCGATTCTGTCTTTGACTTCCAATGGCAAACCTGGGTGATCGGGAACAA
GCACGTTGTACCCCTGGCTGGACATGGCCAAGACACAAGGCATTCCACGGCGGCAAGCTGACCGCACAGCAGTCT
GGCTTGATTTTTCAGCCGTCATCATTGGGTCTGTTTTGACAGCTCTGCTGTCCCATAGGGACTGCGACTGGGACC
AGGTCAACCACGCCAGGGGGGTGTACCAGCCTTTTCTTTTTTTCTTTCTTTTTTTTTTTCTCTCTTAAGCTG
CTGTCAATCCAAACCATTGGCATCATCGTTTCTTTTCAATTAAAAACCAACATATCAGCAATAGTCTGCTCTCCCC
GGGAATCTCTAACATGCTCTGTTTACATCGATAAATGCACTTAAGGAAAACAAACAAATTAAAGCTCATCTTAA
GTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5315

MAKTYDYLFKLLLLIGDSGVGKTCVLFREFSEDAFNSTFISTIGIDFKIRTIELDGKRIKLQIWDTAGQERFRTITT
AAYRGAMGIMLVYDITNEKSFDNIRNWIRNIEEHASADVEKMILGNKCDVNDKRQVSKERGEKLALDYGIKFMET
SAKANINVENAFFTLARDIKAKMDKKLEGNSPQGSNQGVKITPDQQRSSFFRCVLL

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FIGURE 5316

GGTGAGCTGTGCGGGGCGGCGCCCGGCCTTGCTCAACGCCCAGCAGTCCCCACCGTCGCTGCCGCCGCCACCGCC
CTCGGCCGCTGCCGAGGCCTCCTGCAGCCATCATGTCCGCCAGCGCGTCTACGTGCTGGACCTGAAGGGCAAGG
TGCTCATCTGCCGGAACCTACCGTGGCGACGTGGACATGTCAGAGGTGGAGCACTTCATGCCCATCCTGATGGAGA
AGGAGGAGGAGGGGATGCTGTGCCCCATCCTGGCCACGGGGGGGTCCGTTTCATGTGGATCAAACACAACAACC
TGTATCTGGTTGCCACATCCAAGAAGAACGCGTGGTGTGCTGGTCTTTCTTTCTCTATAAGGTGGTGCAGG
TGTTTTCCGAGTACTTCAAGGAGCTGGAGGAGGAGAGCATCCGGGACAACCTTTGTTATCATCTACGAGCTGCTGG
ACGAGCTCATGGACTTCGGCTACCCCCAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGGAAGGCC
ACAAGCTGGAAACAGGGGCCCCGCGGCCACCAGCCACCGTCACCAACGCGGTGTCCTGGCGGTCCGAAGGCATCA
AGTATCGGAAGAATGAGGTGTTCTTGACGTCATCGAGTCTGTCAACCTCTTGGTCAGCGCCAACGGCAATGTCC
TGCGCAGCGAGATCGTGGGCTCCATCAAGATGCGAGTCTTCCTCTCGGGCATGCCCGAGCTGCGCCTGGGCTCA
ACGACAAGGTCTCTTTGACAACACGGGCCGCGGCAAAAGCAAATCCGTGGAGCTGGAGGATGTGAAGTTCCACC
AGTGTGTGCGGCTATCAGCTTCGAGAATGACCGCACCATCTCCTTCATCCCACCCGACGGCGAGTTCGAGCTCA
TGTCTTACCGTCTCAACACCCACGTCAAGCCTTTGATATGGATCGAGTCGGTGATCGAGAAGCACTCCACAGCC
GCATCGAGTACATGATCAAGGCCAAAAGCCAGTTCAAGCGGCGGTCAACAGCCAACAACGTGGAGATCCACATTC
CCGTGCCCAATGATGCCGACTCACCCAAGTTCAAGACGACGGTGGGGAGCGTTAAGTGGGTCCCCGAGAACAGCG
AGATCGTGTGGTCCATCAAGTCCTTCCCGGGCGGCAAGGAGTACCTGATGCGGGCCCACTTCGGCCTGCCTAGTG
TGGAGGCCGAAGACAAGGAGGGCAAGCCCCCGATCAGTGTCAAGTTCGAGATCCCTTACTTCACTACCTCCGGCA
TCCAGGTGCGCTACCTGAAGATCATTGAGAAGAGTGGGTACCAGGCCCTGCCCTGGGTGCGTTATATCACGCAGA
ATGGAGATTACCAGCTCCGGACCCAGTGAGGGGCTGTGCGAGCCAACACCCCGGCCCTCGGGCTCCTGGTGGCAGC
ACCAGGGACACACCTGCCAAACCCACCAGATGGAGGGGCCCTCCTGGTCTCTGGCCACCCTTCCAGCCTCTGCCC
AGGGACTCCTGCCTTACCAGGGCATCTGCTCTGCCGTGACACTCGTCTCAGAAGCCCCCTTTCCAGAAAGAGGC
TGGTCTTCAAGAAGTCTCGTTTCTTTGCCCTGAAGTCAGTTTCAGGGGAAGGATGTGAAATTTTTCCGTGTAGA
GGTTACAGCCTTTTATGCTGTTGAGCTCCCAGGTACCAAAAAGCTTGGCCAACGCTTGCCAGCCAGCCAGCTGCA
GGTGGCATCTGCCACGAAGGAAGCGCCACGCTCGCCAGGCCAGCAGGGGCGTCGTTTTGTTGCCATTTTGTGAA
CGTTATGGGTTTATGGGTGTTCTTGGAACCTTGCTTTGTGCATTCTGTTGCTGTTTGTGTTACCTCACTGTCCCC
ATGTCCCACCCACGTCTTACGGCACTCAGGAAGCACTTGGTGAGGACGAGCCCTCACCTTCTTGTCTTCCTTCC
CGGCAGCGCCGACGCGGGCCATTTACACGTGAGGCTGGCACCTGGCGCGCTCGGGGGCCACTGTAGCGTCTGCC
TGCTCCCTGGACTCGCAGGCCTCGCCTGTGGCGCCTTCCCAGGGCCAGCCTGGGTACGAGATGCTGTCACTCAG
CCAGATCAGTATTGACCCACCAGGGGAGGTGGGGTTTGGTGAGAGACGCCAGCCTCAGACTTTTTCCCACTGAGG
GTCCAGAGAGCGGGGCCACGTGTCACCCACGTCTGCGCTTGGTCACCCGTCCTCCCCACCCTGTGTGTGTTTATG
TCATAGTTACATTAAATTCCATTCATTG

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FIGURE 5317

CCTTCAGGCCTGAATGTGGCGGCTGCCTCTGCGAATGGACGGCGTGGGAAGAGAATGGCTTCTGCAAGGAAAGCC
AGCCGTCCCATGCGTGATGTTTTTGGTGACTTCAGTGATGTTTCCTTGGAAGATTCAACAATGGAAGAAATCAGA
AACTTCCAGATCAGTAGAAATCTTACCAAAATAGCACCTGGTCATAGCAGATTTCTAAAAAGAAACCAAACCTCTA
GATGAGAAACACTTACTCCTGAAAGAGAACCCTGTGCTCGGGAGTGGACCCAGGCTTGCCTCATGTAGACCGCCC
ACCACTGCCTCCAGGATCCGAGCCAATGCCGCACTCATGAAGCTGGCCAGCTGGAAACCCGGATCATGAATCGG
AAGCTGCAGAGGAATTTGTCTGACACGGAATCTGACTCAATGACCGCCGATGCTGGTCTTCCAAAGAGAGCTGAC
AGAATCCTCTCTGGGGGTGCACTCGAACTCGCGTCCAGAACACAGACAAAACCTTCCAGAATCAAGCCCGTGAA
CTTCCTGTACCCGAAAATAATGCACAGAACGCGAAGGTCAGTAGGTTTCTAAAGAAGAAACAAGCACCTGTTGAA
AACATATCCCTGAAGCACCTGCTGGGAAAGAGAGGACTTTGCAAACCCCCAAACAGAAAGAACCTGCTAGAACA
TTTGATTCTCCAGACAGTGACGAAGAAGAAATGAAAGTATTGCTAGGAAGCTTGATGGACTCTTCTAGAGAAAAA
AACACGAATCAAGGCTTCAGCAGCGCTAACGTCAGCGAGGAAGAAGAAAGAAAACCTATTTTCGGTCCCCTCTCAA
CTGAGAGCATTTACTGTACCCAGCGTGGAACCTCTCCAGCGCAAAGCCTTCTCAGACATCACACCTGCCAACCTCC
CTGGCAGCAGACAGAACCCTTCACAGCACTCGCTCAAGAGCAGACTACCCACAGAGTCACGTTTCCAGTGACACC
GCCTCCCACACGCCGTCAGTTTCCATCACAGGCGCCTTTTCAAACCTCAGTGTCTTTAAAGATGGGGCATGTCAAG
CTTGCTCTCTCCCCGGGAAGGAGTGAGGCTGAGACTGTGGACGAGCCAGTCTCAGAAGGTGCTGATGACAGCCTC
GACGAGTTTAGAATAAATATTTTATCGCTTGACGGTCTGGCTCCAGCTGTCAGTGAGAATCCGATTTGGAACAG
GAAGAGGAAAGTGCTCAGAGACAAAAACAGCTGGCAAAATCTTCAGAGCCGAGGCGTCCACTGGGCAGGATGCC
CCGAGGCAGGCCAGGCGAGGAGCTGGGCATCACAGGGAAGGCCGCTCTGCAGAGGGGGATGAGAGCGAGGTC
TCGGAGCATCTCAGTGCCAGCTCGGCTTCTGCCATCCAGCAGGACAGCACTTCCAGCATGCAGCCACCCTCTGAA
GCCCCATGGTGAACACAGTCAGCTCAGCTTATTTCGAGGATTTTGAAACTCTCCAAGTCTGACAGCATCTGAG
CCAACCGCCATTCCAAGGAGTCTCTTGACAGAACACTGGACGCTTTGTCTGAATCCTCTTCAAGTGTGAAGACA
GACCTTCCACAAACAGCCGAGTCTAGGAAAAAGTCGGGCAGGCACGTGACAAGAGTGCTTGTGAAGGACACAGCT
GTGCAGACGCCAGATCCTGCCTTCACCTACGAGTGGACCAAGGTGGCCAGCATGGCAGCCATGGGGCCTGCCCTG
GGAGGCGCTACGTGGACCCGACACCCATCGCCAATCATGTTATCAGTGCAGATGCAATAGAAGCCCTGACCGCT
TACAGCCCGCCGTGCTGGCACTCCATGATGTGCTGAAGCAGCAGCTGAGCCTGACGCAGCAGTTTATCCAGGCC
AGCCGGCACCTGCACGCCTCCCTCCTGCGCTCCCTGGACGCGGACTCCTTCCACTACCACACCCTGGAGGAAGCC
AAAGAGTACATTAGGTGCCACAGACCTGCCCCACTGACCATGGAGGATGCCCTGGAGGAGGTGAACAAGGAGCTG
TGAGCGCCAGCAGGTGGAGCTTGACGTGACGTCTTAACAAAAGCAAAGCACCGCAGCTTCCCAGAGTTACCAGCG
CAGCACTTAAGACAGGATCTTACGGCGGGGTGGGGCTCCTGGACCGTGACCGGCGTCTGCTTCTCGGGAGTACG
ACTTGGACCGGGACCGCGACTGGGACCGGGAGCGGCTTCTGGAGGAGCGGACCTGCTCCGACTTCTGCAGGGAA
GGGTGCCCCAAGGTCAGCAGCAGCCAGGCGTCTGGGGAGGCCACAGGAAGGGGCTCAGGCACTGCCCTGAGGC
AGCCTCTGCCTACCTAGATCTGGAGCGGGAGTAGGAACGGGAGCAGGAGCGGACCTTGACCTTGAGTACGAGCC
TGAAGACTTGGAGGATCTTGAGTTGGAGCGGGAGGAAGAAGCCCTCGACTCTTGATCTGCTCCGAGACCTCGA
GGGTCCGCTGTGGGGAGAGGCTGATGATCAGGTGCCCCAGTGGATGGGCTGCACCCAGCCACCCCTGGCCCTCA
GGTTCCCTAGACCACCCAGATGCAGGGGCTCTGGCTGTGGATGTGGCGCCATAGCCACAGCAACGGTACCAAGTT
CCTAAATAGTGTGGCCGAGCCTGCTGCTGTGTGAATTCAGGCCTTGTGGAAAACACCGCCCCATAGGCACAGGCT
GTGTGAGGGTGGACGTGATGAGTGTATCTGGGGTCTGCTCCCACCCATCACAAGCTGTGGACCTTGCCCCCGG
CCACTGCAGACATCTGCGCTTTTACCTGTTCTCTTCTCCTGGCCTTTCTCCGCGGGGCGCATTTTGTCTCG
GAAGAACTCATAGAGGCCGTTCTGCTCCCAGCCTTCACTGTAAGACACGGCATTCCGTGTGTGACCACGTGACAC
CCACCCACAAGGAAGTCGTGAAAAAGTCATCAGGAGTTAATCCACAGAACCTTGGAGAGTACATGGCCCTGTGGC
TGTGGGCTCCGAGCATGGGCGCAGTAGAGCTTGGTTCAAGTGTTCACAGGGCTGTCTCTCTGCAGCCAGTGGC
TCCTCTGGTGGCCACGCCCTTGCCACCCTGCTGTTCCGCTGAGGTGGTGGGGACCCATGGTCTGTGGAACCTGGGA
AACAGGAACACTGACTCATGGGTGGACAGGCCTGCAGCCCAGCACAGGAAGGAGGGGTGACCACTGGGAAGGGTG
GGCTGAGGGCCCTGTGGCAGCCGGCTGCTTGAGACGTGCCGCCGTGCCACACCTTCCCTAACTTCTTCTGATGTG
TCTCCATTAAACGCCCTTCATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5318

MASARKASRPMRDVFGDFSVDVSLDSTMEIIRNFQISRNLTKIAPGHSRFLKRNQTLDEKHLLKKNPVLGSGPR
LASCRPPTTASRIRANAALMKLAQLETRIMNRKLQRNLSDTESDSMTADAGLPKRADRILSGGALELASQNTDKT
SQNQARELPVTENNAQNAKVSRLKKKQAPVENISPEAPAGKERTLQTPKQKEPARTFDSPDSDEEEMKVLLGSL
MDSSREKNTNQGFSSANVSEEEERKLFSVPSQLRAFTVPSVELSSAKPSQTSHLPTSLAADRTLHSTRSRADYPQ
SHVSSDTASHTPSVSITGAFSNSVSLKMGHVKLVSPPGRSEAETVDEPVSEGADDSLDEFNRINILSLDGLAPAVS
ENSDLEQEEESAQRQKTAKIFRAEASTGQDAPRQAQARSWASQGKAASAEGDESEVSEHLSASSASAIQQDSTS
SMQPPSEAPMVNTVSSAYSEDFENSPSLTASEPTAHSKESLDRTLDALSESSSVKTDLPQTAESRKKSGRHVTR
VLVKDTAVQTPDPAFTYEWTKVASMAAMGPALGGAYVDPTPIANHVISADAIEALTAYSPAVLALHDVLKQQLSL
TQQFIQASRHLHASLLRSLDADSFHYHTLEEAKKEYIRCHRPAPLTMEDALEEVNKL

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FIGURE 5319A

GGCACGAGGGCAGACGGCGCTGGTGGTTCGATCGTGTGGCGCCGGAGGACGTTCCCCGCGGCCGGAGCCATGGAGA
TGCCGCTGCCCCCGATGACCAGGAGCTTCGAAATGTCATCGACAAGCTCGCCAGTTCGTGGCTCGCAATGGGC
CCGAGTTTGAGAAGATGACTATGGAGAAGCAGAAGGACAACCCCAAATTCGTTCCTTTTCGGAGGCGAATTCT
ACAGTTACTACAAGTGCAAGCTGGCGCTGGAGCAGCAGCAGCTCATCTGCAAGCAGCAGACCCCGGAGCTGGAGC
CAGCCGCCACCATGCCACCCCTGCCACAGCCCCGCTGGCCCCGCGCGCCCATCCCGCCGGCCAGGGCGCGC
CATCCATGGACGAGCTCATCCAGCAGAGCCAGTGGAACTCCAGCAGCAGGAGCAGCACTTGCTGGCGCTCAGAC
AGGAGCAAGTGACAGCGGCCGTGGCCACGCGGTGGAGCAGCAGATGCAGAAGCTTCTGGAGGAGACCCAGCTAG
ACATGAACGAGTTTGACAACCTCCTGCAGCCCATCATCGACACGTGCACCAAGGACGCCATCTCGGCCGGGAAGA
ACTGGATGTTTCAGCAATGCCAAGTCCCCGCGCACTGTGAGCTGATGGCCGGCCACCTCCGGAACCGCATCACGG
CTGATGGGGCACACTTCGAGCTGCGGCTGCACCTCATCTACCTGATCAATGACGTGCTGCACCACTGCCAGCGCA
AGCAGGCCCGGGAGCTGCTGGCCGCCCTGCAGAAAGTCTGTTGGTCCCCATCTACTGCACCAGCTTCTTGGCCGTGG
AGGAAGACAAGCAGCAGAAGATCGCCCCGCTCCTGCAGCTCTGGGAGAAAAACGGCTACTTCGATGACTCCATCA
TTCAGCAGCTACAGAGCCCAGCCCTGGGGCTTGGTTCAGTACCAGGCCACCCTCATCAACGAGTACTCCTCAGTGG
TCCAGCCGGTGCAGCTGGCCTTCCAGCAGCAGATCCAGACCCTCAAGACGCAGCAGCAGGAGTGTGTCACCAGCC
TGGCCAGCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAGCTCCAGATGCCGCAGATGGAGGCTGAAGTCAAGG
CCACGCCTCCACCGCCTGCTCCACCCCCGCCCCAGCACCTGCCCTGCCATCCCGCCACCACCCAGCCTGATG
ACAGCAAGCCTCCCATCCAGATGCCTGGCTCTTCAGAGTACGAAGCTCCAGGAGGGGTCCAGGATCCTGCAGCTG
CCGGCCCCCGGGGCCCCGGGCCACACGACCAGATCCCACCAAACAAGCCCCCTTGGTTTGACCAGCCTCACCCCG
TGGCTCCTTGGGGCCAGCAGCAGCCGCCAGAGCAGCCACCTACCCGCACCACCAGGGCGGGCCACCCCACTGCC
CCCCCTGGAACAACAGCCATGAGGGCATGTGGGGCAGCAGCGCGGTGACCCCGGCTGGAACGGCCAGCGCGACG
CGCCCTGGAACAACAGCCCGACGCGCGCTGGAACAGCCAGTTCGAGGGCCCCCTGGAACAGCCAGCAGCAGCAGC
CGCCCTGGGGCGGGGGCCAGCGCGAGCCACCCTTCCGCATGCAGCGGCCCCACACTTCCGGGGGCCCTTCCCGC
CCCACCAGCAGCACCCCGCAGTTCAACCAGCCTCCGCACCCCCACAATTCAACCGCTTCCCGCCCCGCTTCATGC
AGGACGACTTCCCGCCACGGCACCCCTTCGAGCGGCCGCCCTATCCCCACCGCTTCGACTACCCCAAGGGGACT
TCCCTGCCGAAATGGGGCCCCCTCACCAACCACCTGGCCACCGCATGCCTCATCCTGGCATCAACGAGCACCCGC
CTTGGGCTGGACCCACGACCCCTGACTTCGGCCCTCCCCCCATGGCTTCAACGGGCAGCCCCACACATGCGGC
GACAGGGCCCCGCCACATCAACCAGATGACCCAGCCTGGTCCCCAATGTGCCCTACTTCGATCTCCCTGCTG
GGCTGATGGCCCCCTCGTGAAGCTGGAAGATCACGAGTACAAGCCTTTGGACCCTAAAGACATCCGCCTCCAC
CCCCATGCCGCCAGCGAGAGGCTGCTGGCTGCAGTGGAGGCCCTTCTACAGCCCCCGTCCACGACAGGCCCA
GGAACAGTGAAGGCTGGGAGCAGAACGGCCTCTATGAGTTCTTCCGAGCAAAAATGCGGGCCCGGCGGAGGAAAG
GCCAGGAGAAGAGGAACAGCGGACCCTCGAGGTCTCGGAGCAGATCCAAGAGTCGAGGGCGTTCTTCTCCCGCT
CCAATCAAGATCCTCCAAGTCTTCAGGCTCGTACTCAAGGTCAAGGTGCGCTCCTGCTCCCGTTCTACTCCC
GCTCCAGATCTAGAAGTCGGAGCAGGTGCGCTCCTCCAGAAGCGCTCCCGGTCCAGTCGCGGTCCCGGTCCA
AGTCGTACTCCCAGGAAGAAGACGCGGTACGGTCCAGGAGCCCCACCCCGCCTTCTCTGCTGGTCTGGGTT
CTAATTCGGCGCTCCCATTCCTGACTCAAGGCTCGGAGAAGAGAACAAGGCCATCAGATGCTGGTGAAGATGG
GCTGGAGCGGCTCAGGCGGCCTCGGTGCGAAGGAGCAAGGGATCCAGGACCCCATCAAGGGCGGGGACGTCCGGG
ATAAGTGGGACCAGTATAAAGGCGTGGGCGTGGCTCTGGATGACCCCTATGAGAACTACCGCAGGAACAAGAGCT
ACTCCTTCATCGCCCGCATGAAGGCCAGGGACGAGTGTAAGTAGGCGCCCATGCCGGGAGCCGCGCCGGTGGCCA
GCGGTGCCGGCTGTGGGACCTTCTGGCTGACTGGCAGAGGAAGATTGCAGTGACAGCTCAGTTCTTACACCGTC
TCCACTTGTGGAGAGCCACAGGAAGAGAAGGAAGACCAGCGCATGCCAGTGGGAACGCCGTGCTCCATGGCGTG
GAGGGCACGGGTGCCACCCACAAACCACACCAGGAGGCGCTGCAGCCACCAGGGCCCCAGGCTCGTTTTCTTTA
TAGCGAAGCAAAAAACACAAGACCCTCCGCCCCAGTAAATTCTTCAGCCACGAAGGGATGGATGTGCATCTGCC
TAAGTCAGATTGAAGCCTCCTCCTAGGCTCCAGGAGGAGCATGTGCAGGAAGGGTTGGCCTGAGCCAGAGCCGGC
ACCCAGCTCCTTCTCCAGCTCCCCGCACCCACCGGCCCTGACCTGGCTTCCCCTCGGCTGTGTAGGGACAAAG
CCGAAGCCAGTGCCATGACTGCCCGCGGATTGAAAAACAGAAACACAAAACCTTTGACTTGACTTGCGAAGTGAA
GCAGGGTTTTTCATTTTTACTCTCCTTGGTTTAGGTCTAGAAAGAAGAATACTGACCTGAGAGGAGGCCAGTGAG
ATTCTGAAACCTAATTCTTCGAAGGCGTACTGGCCCTTAGTTTCAGTTATTTTAGTTGTATAAGTTGATATTTTTT
TTCTGGAATGTAGCCATTTGCTGTTATCTGGGAAACAAGATTCTAACAGGAACCAGCCTAAGACACTTCAGGTT

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FIGURE 5319B

GAGCGCTGCCTCGGAGTCTGTGCCCGTCGCGTCCCCTGCTTGAGTTTTGCACTTGGAAGAACCCTGCACCGGCTG
GCGTGTGCGACGGGCCAGTCCCATCCAGAGCATGGAGCCCGACCCAGCCAGCGCCTTCCACTCCATCATTTCAT
TTCACACCCCCGAAGGGAGGGGAGGCCAGGAGGGGAGCTGCTCCTGCCAGAAAGCTGGTGGGTGACCGTTGGGAAT
CGGCCACACCTGGTGTCCATGGGCAGCCTGGTGCAATTCCATTCAATTTGTACAGAAACATTTTTGAAAAATTCTT
TTCAATAAGATGCAAAATCTTCCAACTTTTCAACCCAACGTGATGAATATTTGATTTTGTCTAGATTCCTGTA
GCTGTGAATTGTTAAAATGTATGATTCAGGATAAAACGTAAACACGTGCTGTTAGTAATTTCTTGTGGATTCAT
TGTTTTGCCTTCAAATAAAGCCTTTTTTTAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5320

MTMEKQKDNPKFSFLFGGEFYSSYYKCKLALQEQQLICKQOTPELEPAATMPPLPQPPLAPAAPIPPAQGAPSMDE
LIQQSQWNLQQQEQHLLALRQEQVTA AVAHAVEQQMQKLEETQLDMNEFDNLLQPIIDTCTKDAISAGKNWMFS
NAKSPPHCELMAGHLRNRIADGAHFELRLHLIYLINDVLHHCQRKQARELLAALQKVVPYICTSFLAVEEDKQ
QKIARLLQLWEKNGYFDDSIQQQLQSPALGLGQYQATLINEYSSVVQPVQLAFQQQIQTLKTQHEEFVTSLAQQQ
QQQQQQQQQLQMPQMEA EVKATPPPPFAPPPAPAPAPAIPPTTQPDDSKPPIQMPGSSEYEAPGGVQDPAAAGPRG
PGPHDQIPPNKPPWFDQPHPVAPWGQQQPPEQPPYPHHQGGPPHCPPWNNSHHEGMWGEQRGDPGWNGQRDAPWNN
QPDAAWNSQFEGPWNSQHEQPPWGGGQREPPFRMQRPFFRGPFPPHQQHPQFNQPPHPHNFNRFPPRFMQDDFP
PRHPFERPPYPHREFDYPQGDFPAEMGPPHHHPGHRMPHPGINEHPPWAGPQHPDFGPPPHGFNGQPPHMRQGGP
HINHDDPSLVPNVPYFDLPAGLMAPLVKLEDHEYKPLDPKDIRLPPPMPPSERLLAAVEAFYSPPSHDRPRNSEG
WEQNGLYEFFRAKMRARRRKQGEKRNSGPRSRSRSKSRGRSSSRSNSRSRSSKSSGSYSRSRSRSCSRYSRSRSR
SRSRSRSSRSRSRSQSRSRSKSYSPGRRRRSRSRSTPPSSAGLGSNSAPPIDPSRLGEENKQHMLVKMGWSGS
GGLGAKEQGIQDFIKGGDVRDKWDQYKGVGVALDDPYENYRRNKSYSFIARMKARDECK

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FIGURE 5321

GTGCCACATCCTGGCTCTGTGCGCTGGGCTCCCGCCGCTGCTGCGCGCCTGGCGCGTGCCCCCGCGCCGCCCCGT
CTCGGGCCCCGGACCCAGTCCGCATCCGTCGTCCGGCCCCGCTGCTGCCGCCGCGCTTCTACCCGCGCTACGTGCT
ACCGCTCGCCTTCGGCAAGTACTTCGCGTCCGTGTGACGCGACGTGAGCATCTGGAAGGTGCCCGTGTCTCTATGC
ACACACCGTCAAGGCCACCATGCCCATCTGGGTGGTCCCTCTGTCCCGGATCATTATGAAGGAGAAGCAGAGCAC
CAAGGTATACCTTGTCACTCATCCCCATCATCAGCGGTGTCTGCTGGCCACCGTCCACCGAGTTGTCTTTTGACAT
GTGGGGACTCGTCAGCGCCCTCGCCGCCACGCTGTGCTTCTCGCTTCAGAACATTTTCTCCAAAAGGTCTTGCG
AGATTCACGGATCCACCATCTCCGGCTGCTCAACATCCTGGGTGCCACGCCGTCTTCTTTATGATCCCCACCTG
GGTCTGGTGGACCTCTCGGCTTTCTGGTCAAGCAGCGACTTGACCTACGTCTACCAGTGGCCCTGGACGCTCCT
GCTCCTGGCTGTGACGGCTTCTGTAACTTTGCCAGAATGTTATCGCCTTCAGCATCCTCAACCTCGTTAGCCC
CCTGAGCTACTCGGTGCGCAATGCCACCAAAAGAATCATGGTCATCAGGTGTCCCTGATCATGCTGCGCAACCC
AGTCACCAGCACCAACGTCTGGGCATGATGACCGCCATCCTGGGGGTCTTCTCTATAACAAGACCAAGTACGA
TGCAAACCAGCAAGCCAGGAAGCACCTCCTCCCCGTCAACACAGCAGACCTGAGCAGCAAGGAGCGTCACCGGAG
CCCCTGGAGAAGCCCCACAACGGCCTCCTCTTCCCCCAGCACGGGGACTATCAGTACGGCCGCAACAACATCTT
AACAGACCACTTCCAATACAGCCGGCAGAGCTACCCAAACTCGTACAGTTTGAACCGCTATGATGTGTAGAGTCC
AAAGGACAGGACCAGACTGTTGGTGAATCCTTCCCCGGCCCCACAGCAGTATCAGAACTTCTGACAATCAGTG
AATGTACAACCCAGCCGAGGGGACGGTGCATAACTCTCCATCAGAAGCCCTGGGGTTCTGGCCCCCGTGAGCC
GCAGGAGGATGCGTTGCCTGCAGTGCAGACGGCCGTGAGCTCTGGGCAAACCTAAACAGAGACCAGTGTCTCATG
CTCTTTCTTCTGGAGTCTGTCTATCTGAGGGCCGTGTCCCTGCGGAGATCTTGGCCACGTTGTACCTTTCCATGT
GGAATTATTCCCAAGCAGTGTAGCTCAGAGCACTTGTGTCTGCATTCCAGATAACATTACAGACCTGTGTGAAA
AGCTGGGGTCACTGTGGCTGTAGACCATGAACTGGCAGTGGGGGTGTCCAGGGCGGTGCTTGAGAACGTCAGACT
GGCTAGTTTTAATTCCCTGGCGCAGATACGCATAGGACCAACAGGGTCACCAAGCAGACAGGGAGCCCCGCGAGAAT
CATTCAAAACATCCCCAGCCACAGAGATGGATCCAGTTTCTGGTCACTCCCTTAGCAGTTTACAAGTTCTTGGC
AAATGTTCCAAAGCAAAAGCGATTGCAATTAGCATCCAGTTCTGAGCCTGGTGTCTGCCCCGTCACGTCAGG
GTTGGCATCCACCCAGATCCAGATGGAAGGGAACTTCTCTCTTCTCCTTTGCCTCCTCTCCCTCACCAGAGCA
GGGCGCTTCTCTTGGGGTGGTGAGAAGGATCTTCGAGAAATCGTGTTTCAAGTCTATTTCTGTGGCA
CATGTCTTTTGAGAGGCATCTTCACCTCTTCTGTGATGACTTGGTATGTTGTTTGGTAGAGAGATCTTGATTTTC
GGAGGATCTTGCATTTTTCTAGGGAATATTTTGTAGTTGTGTGTGTGTGTTTTTGCCTTGGTCCCCATTATGGGA
TGCAATTAGGACTGGCCTATGCATCGAAAATCTTTTTGTTTGTAAACGTTTAAAAACAAAGTTCCCCGGCCAGGCA
CAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGATGGGCGGATCACGAGGTCAGGAGTTCGAGACC
AGCCTGGCCAACATAGTGAAACCCCATCTCTACTAAAAATACAGAAATTAGCCGGGCATGGTGTGCGGTGCCTGT
AGTCCCAGCTCCTCAGGCTGCTGAGGCAGGCGAATTGCTTGAACCTGGGAGGCAGAAGTTGTGGTGAGCCGAGAT
TGTGCACTCCAGCCTGGGTAACAGAGCGAGACTCCATCTCAAAAAAACAACAAACAAAGTTCCCACTGGT
GATGCCTGTCTGACACGTTTTTGGTATTTAGTAGGAAATGAAGTGTTCGAAGCTTCGAGAGAAGCTTCAAAATTG
TCACAATTGCTGAAAACAGAATGAATCGTGAACATTATCTCAATATTTTGTATAATAGACAAGACCACAGTGTTT
TGGTTCCTGACCTGTTTTTGTGTTTATGTTAGGATCTGAATCATGTTCTGGGTAAGGGGACGAGGAGCGAACAC
TGCACTAAGATTTGGTTTGCCAAATCAGATTCTTTGGTCAAGAGTCAGTTTGGGGCCAGGCGTGGTGGCTCATGC
CTGTAATCTCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACTGGAGTTTGAGACCACCCTGGCCAACATGGTGA
AACCCCATCTCTACTAAAAACAAAATTAGCCAGGCATGGTGGCACCTGCCTGTAATCCCAGCTACTTGGGAGGCT
GAGGCAGGAGAATCACTTGAGCCCAGGAGGTGGAGGTTTACGCGAGCTGAGATCACACCACTGCACTCCAGCCTT
GGTGACAGAGTGAGACTCTGTCTC

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FIGURE 5322

MPIWVLLSRIIMKEKQSTKVYLSLIPIIISGVLLATVTELSFDMWGLVSALAATLCFSLQNIFSKKVLRDSRIHH
LRLNLILGCHAVFFMIPTWVLVDLSAFLVSSDLTYVYQWPWTLLLLAVSGFCNFAQNVIAFSILNLVSPLSYSVA
NATKRIMVITVSLIMLRNPVTSTNVLGMMTAILGVFLYNKTKYDANQQARKHLLPVTADLSSKERHRSPLEKPH
NGLLFPQHGDYQYGRNNILTDHFQYSRQSYPNSSYSLNRYDV

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FIGURE 5323

GGCACGAGGGGAACATCTTCATGATGTTCTGTCATGATTGTGCTGTTCTGGCTCTTGAATCCCAGCGATGAAACCAG
GAACTCACTTTCCCGGGATGCCGAGTCTCCATTCCCTCCATTCTGATGACTTCAAGAATGTTTTGACCAGAAAA
CCGACAACCTTCCCAGAAAGTCCAAGCTCGTGGTGGGTGGAAAAGTGTTGCGCGAGGTGTGCATGGTTTCCCAGC
CACGTCCCTGTTTTCAAAGATAGTTTCACTTTGGTCTCTGAATTGAAATGCTGTCTACTGAAAGGGTTTCAGGAG
CGTTTATGTAAGGGGCTGTGATGAAATTGCATTCCCCATAGATAAAAGAAAAATCATTCTATCCAGAGATCTGA
GCAGAAGGATTGGCTTGTTAGTTTAAACACAGCCGTATTTTTGGACATTCACTGTTACTTGCTGAGTCTGACAGCC
TCTGGGCCCCGGCCAGGGGCCCTGTAAACAACTGCTTTCACATCCCAACAGGGTCTGCTTGGCCACTCAGTGCAG
CTGCGATTAAACCCTAAAGGCTTTAAGGAACGGGCCACCTGTAACAGAGACACCAGCCTTCCTGTATAGACACTAA
ATTGTTAGCAAGAGTGTTGAGCTAGTTCCTGGTGAAGTGTTTCCACAGAAGACATGTGGAGCAGTTGTGGGGATA
TTAAGGGAACTTTCCCTCTGCCTTGACCCCTTTGTAAATAAAATGACTTTGGGAGCCATTCACTGTACAGTTGC
AGGAATGAGAGTGATTTTATGATGTGGTACATTGGGACCATGTTCTAAACCTTGGGTTTCTGAGTCTGCTTTTT
GAGTAGGTGATTTTGAGGTTGAAAAACCAGGGGCCTTCATCTAGGAAATACAGCATTTTCCAGAAGCTTCTTTGA
AAGGAATCCTGGTTTTGTGTCCTGTTTAAACGCCCCGGGGTTGGCGCTGAATCCCACAACCTGTGTGATTGCTT
GTTGAGTTTTTTGTTGCTGCTGTTTTTTTTGTTTGTGTTTATACCAATAAGAATGAGCCTGAATGTTGGTGGTTT
TTGAAATCCTGACTTGAGGTAAACCTGGAGGAAGGAAAAAAGTAAATATGCAGGCTTTTAGGACTGAGTAGCC
TTGAAAATAAACCTCATTCTAAAAAGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 5324

MPSLHSSIPDDFKNVFDQKTDNLPRKSKLVVGGKVFAEVCMSQPRPCFQR

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FIGURE 5325A

ATGAGTGTGAAAGAGGCAGGCAGCTCGGGCCGCCGGGAGCAGGCGGCCCTACCACCTGCACATCTACCCCCAGCTG
TCCACCACCGAGAGCCAGGCCTCGTGCCGCGTGACTGCCACCAAGGACAGCACCACCTCGGACGTCAATCAAGGAC
GCCATTGCCAGCCTGCGGCTGGACGGCACCAAAATGTTATGTGCTGGTGGAGGTCAAAGAGTCGGGAGGCGAGGAA
TGGGTGCTGGACGCCAACGACTCGCCTGTGCACCGGGTGCTGCTATGGCCCCGGCGGGCACAGGACGAGCACCCCT
CAGGAGGATGGCTACTACTTCCCTGCTGCAGGAGCGCAACGCAGATGGAACCATCAAGTACGTGCATATGCAGCTG
GTGGCGCAGGCCACAGCCACCCGGCGCCTAGTGGAGCGTGGCCTCCTGCCACGGCAGCAGGCGGACTTTGATGAC
CTGTGTAACTCCCCGAGCTAACCAGGGGCAACCTCCTGAAGAACCTCAAGCACCGCTTCCCTGCAACAAAAGATC
TACACGTACGCGGGGAGCATCCTGGTGGCCATCAACCCCTTTAAGTTTCTGCCATCTACAACCCCAAGTACGTG
AAGATGTATGAGAACCAGCAGCTGGGCAAGCTGGAGCCACACGTCTTCGCGCTGGCCGACGTGGCCTACTACACC
ATGCTCAGGAAGCGCGTGAACCAAGTGCATCGTGATCTCGGGTGAGAGCGGCTCCGGCAAGACCCAGAGCACCAAC
TTCTCATCCACTGCCTCACCGCCCTCAGCCAGAAGGGCTACGCCAGCGGCGTCGAGAGGACCATCCTGGGTGCT
GGCCCTGTGCTGGAGGCTTTTGAAATGCCAAGACAGCCACAACAACACTCCAGCCGGTTTGGGAAATTCATC
CAAGTCAGCTACCTAGAGAGTGGCATCGTGAGAGGAGCTGTGCTGAGAAATATCTGCTTGAAAAGTCTCGCCTG
GTGTCTCAGGAGAAGGATGAGAGGAACTACCATGTGTTTTATTATTTGTTACTTGGGGTCAGCGAGGAAGAGCGC
CAAGAATTTAGCTCAAGCAGCCTGAAGATTATTTCTACCTCAACCAGCATAACTTGAAGATTGAAGATGGGGAG
GACCTGAAGCATGACTTTGAGAGGCTCAAGCAGGCCATGGAGATGGTGGGCTTCCCTCCCCGCCACCAAGAAGCAG
ATTTTTGCCGTCTCTCGGCCATCCTGTACCTGGGCAACGTCACTTATAAGAAGAGAGCTACAGGCCGAGAGGAA
GGGTTGGAGGTGCGGCCACCCGAGGTGCTGGACACCCTGTGCGAGCTTCTGAAGGTGAAGCGAGAAATCTTGGTG
GAGGTTCTGACCAAAAGAAAACGGTGACCGTCAACGACAAGCTTATCCTTCCCTACAGCCTCAGCGAGGCCATC
ACTGCCCGGACTCCATGGCCAAGTCTCTGTACAGCGCCCTGTTGACTGGATTGTGCTGCGGATCAACCACGCA
CTCCTCAACAAGAAGGACGTGGAAGAGGCAGTCTCGTGCTGTCCATTGGGGTCTGGACATCTTCGGGTTTGAA
GACTTCGAGAGGAACAGCTTTGAGCAGTTCTGCATCAACTACGCCAATGAGCAGCTGCAGTATTACTTCAACCAG
CACATCTTCAAGCTGGAGCAGGAGGAATATCAGGGCGAGGGGATCAGTGGCACAACATCGGCTACACAGACAAT
GTCGGCTGCATCCATCTCATCAGCAAGAAACCCACGGGCCTCTTCTACCTGCTGGACGAGGAGAGCAACTTCCCC
CACGCCACGAGCCAGACCCTGCTGGCCAAGTTCAACAGCAACATGAGGACAATAAGTACTTCCCTGGGCACCCCG
GTCATGGAGCCAGCTTTCATCATCCAGCACTTCGCGAGGGAAGGTGAATATCAGATCAAGGACTTCCGGGAGAAG
AACATGGACTACATGCGGCCAGACATCGTGCCCTGCTGCGGGGAGTGACAGCTCCTACGTGCGGGAGCTCATC
GGCATGGACCCCGTGGCCGTGTTCCGCTGGGCCGTGCTCCGGGCTGCTATCCGGGCCATGGCAGTGCTTCGGGAG
GCCGGACGCTGCGGGCCGAGAGGGCCGAAAAGGCTGCAGGTATGAGCAGCCCTGGTGCCAAAGTCACCCAGAA
GAGCTGCCAAGAGGAGCCAGCACCCCTTCGGAAAACCTTTACCGCGATTTGCATAACCAAAATGATCAAGAGCATC
AAAGGATTGCCCTGGCAGGGCGAGGACCCCGTAGCCTTCTCCAGTCCCTCAGTCGGCTCCAGAAACCCCGCGCC
TTCATCCTGAAAAGTAAAGGTATCAAACAAAAGCAGATCATTCCAAAGAACCTACTGGACTCCAAGTCCCTGAAA
CTCATCATCAGCATGACTCTGCACGACCGCACCAAGTCCCTACTGCACCTGCACAAGAAGAAAAAGCCACCA
AGCATCAGCGCCAGTTCAGACATCCCTTAACAAGCTCTTGAGGCACTGGGGAAGGCGGAGCCCTTCTTTATC
CGCTGCATCCGTTCATATGCTGAAAAGAAAGAGCTGTGCTTTGACGACGAGCTGGTCTGCGAGCTGCGCTAC
ACGGGCATGCTGGAGACCGTGCGCATCCGGAGGTGAGGTACAGCGCCAAGTACACGTTCCAGGATTTACCCGAG
CAGTTCCAGGTGCTCCTGCCCCAAGGATGCCCAGCCCTGCAGGGAGGTGATCTCCACCCTCCTGGAGAAAAATGAAG
ATAGACAAGAGGAACCTACCAGATCGGGAAGACCAAGGTCTTCTGAAGGAGACGGAGCGGCAAGCCCTGCAGGAG
ACGCTGCACCGGGAGGTGGTGCGGAAAATCCTGCTGCTGCAGAGCTGGTTCCGGATGGTGCTGGAGCGTCGGCAC
TTCTGCGAGATGAAGCGGGCCGCGTCACCATCCAGGCCTGCTGGCGGTCTACCGGGTCCGGAGGGCGCTGGAG
AGGACGCAGGCTGCCGTGTACCTCCAGGCCTCATGGAGGGGCTACTGGCAGCGGAAGCTTACGGCAGATGATCTCGGAG
AAGCAGAAGGCAGAAGAGAAGGAGAGGGAAGCCCTGGAAGCCGCAAGAGCAGGTGCTGAGGAGGGCGGACAGGGT
CAGGCGGCTGGAGGGCAGCAGGTAGCTGAGCAGGGGCGGAGCCAGCGGAGGATGGCGGGCACCTGGCATCGGAG
CCTGAGGTGCAGCCAAGTGACAGGTCCCCCTAGAGCACTCCTCACCTGAGAAGGAGGCCCAAGCCAGAGAAG
ACTCTCCACCCAGAAAACCGTGGCGGCTGAAAGTCACGAGAAAGTCCCCAGCAGCCGGGAGAAGCGTGAGTCG
CGTCGGCAAAAGAGGGCTGGAGCACGTCAAGTTCCAGAACAAACACATCCAGTCTGCAAGGAGGAGAGTGCCCTC
AGAGAACCTTCCAGAAGGGTCACCCAGGAGCAAGGGGTGAGTCTCCTGGAAGACAAAAGGAGAGCAGAGAAGAT

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FIGURE 5325B

GAAACCCTTCTAGTCGTAGAGACGGAGGCTGAGAACACATCTCAAAAGCAGCCCACAGAGCAACCCAGGCCATG
GCAGTTGGCAAGGTCTCTGAAGAACTGAGAAGACGCTGCCAGTGGGAGCCCCAGGCCTGGCCAGTTGGAGCGG
CCGACCAGCCTGGCCCTGGACAGCAGGGTCAGCCCACCGGCCCTGGCAGCGCCCCGAGACCCCCGAGGACAAG
AGCAAACCATGTGGCAGCCCAAGGGTTCAGGAAAAGCCGACAGCCCCGAGGCTCCACGCAGATCCAGCGGTAC
CTGGACGCCGAGCGGCTGGCCAGCGCCGTGGAAGTGTGGCGGGGCAAGAAGCTGGTGGCCGCCGAGCCCTAGT
GCCATGCTCAGCCAGTCCCTGGACCTCAGCGACAGACACCGGGCCACAGGGGGCCGCCCTCAGCCCCACAGAGGAG
AGGCGCACCTCCTTCTCCACGAGCGACGTCTCAAAGTCTCTCCCGTCCCTGGCCAAGGCTCAGCCTGCAGCAGAA
ACCACGGACGGAGAGCGAAGTGCAGAAAAGCCAGCTGTCCAGAAGAAGAAGCCAGGCGACGCATCTCCCTCCCA
GACGCAGGGCTGTCCCCGGGCTCTCAGGTCGACTCTAAATCCACGTTTAAAGAGGCTTTTTCTGCATAAAACCAAG
GATAAAAAATACAGCCTGGAGGGCGCAGAGGAGCTGGAGAATGCAGTGTCCGGGCACGTGGTGTGGAAGCCACC
ACCATGAAGAAGGGCCTGGAAGCCCCCTCCGGACAGCAGCATCGCCACGCTGCAGGTGAGAAGCGCACCAAGGAA
CCAGGAGGCAAAGGGAAGAAGAACCAGAAATGTCAAGATTGGGAAGATCACAGTGTGAGAGAAGTGGCGGGAATCG
GTGTTCCGCCAGATACCAACGCCAATGAGCTCAAGTACCTGGACGAGTTCCTGCTCAACAAGATAAATGACCTC
CGTTCACAGAAGACGCCCATTGAGAGCTTGTTTATCGAAGCCACCGAGAAGTTCAGGAGCAACATCAAAAACGATG
TACTCTGTCCGAACGGGAAGATCCACGTGGGCTACAAGGATCTGATGGAGAAGTACCAGATCGTTCGTACGCAAC
CTGGCCACTGAGCGTGGCCAGAAGGACACCAACCTGGTCTCAACCTCTTCCAGTCACTGCTAGATGAGTTTACC
CGTGGCTACACCAAGAACGACTTCGAGCCAGTGAAGCAGAGCAAAGCTCAGAAGAAGAAGCGGAAGCAGGAGCGT
GCTGTCCAGGAGCACAACGGGCACGTGTTCCGACGCTACCAGGTTAGCATCCCGCAGTCGTGCGAGCAGTGCCTC
TCCTATATCTGGCTCATGGACAAGGCCCTGCTCTGCAGCGTGTGCAAGATGACCTGCCACAAGAAGTGCCTGCAC
AAGATTAGAGCCACTGCTCTACACCTACGGGAGGAAGGGCGAGCCAGGCGTTGAGCCTGGCCACTTCGGCGTG
TGCGTAGACAGCCTGACCAGCGACAAGGCCCTCGGTGCCATCGTGTGGAAGAAGCTCCTGGAACACGTGGAGATG
CACGGCCTGTACACCGAGGGCCTCTACCGCAAGTCGGGTGCTGCCAACCAGCACTCGGGAGCTCCGGCAGGCGCTG
CAGACAGACCCCGCAGCAGTCAAGCTGGAGAAGTTCCTCATCCAGCCATCACAGGGGTGCTGAAGCAGTGGCTG
CGGGAGCTGCCCGAGCCCCCTCATGACCTTCGCACAGTACGGCGACTTCCTCCGAGCCGTGAGCTGCCGAGAAG
CAGGAGCAGCTGGCTGCCATCTATGCCGTCTGGAGCACCTTCAGAAGCCAACCACAACCTCCCTGGAGAGACTC
ATCTTCCACCTTGTCAGGTGGCCCTGCTCGAGGATGTCAACCGCATGTACCTGGGGCGCTGGCCATTATCTTC
GCACCTGCCTCCTGCGCTGCCCTGACAACCTCGGACCCGCTGACCAGCATGAAGGACGTCTCAAGATCACCAG
TGCGTGGAGATGCTGATCAAGGAGCAGATGAGGAAATACAAAGTGAAGATGGAGGAGATCAGCCAACCTGGAGGCT
GCAGAGAGTATCGCCTTCCGACGGCTTTCGCTCCTGCGACAAAATGCTCCATGGCCTCTCAAACCTGGGGTTTTCG
TCTCCCTATGAGGGGGTCTGAACAAGAGCCCCAAGACCCGGGACATCCAGGAGGAGGAGCTGGAGGTGCTGCTG
GAGGAGGAGGCAGCCGGCGCGATGAGGACCGGGAAGGAGATTCTCATTGAACGGATCCAGTCCATCAAGGAG
GAGAAGGAGGACATACCTACCGGTGCCGAGCTGGACCCAAGGGGCTCGGACGAGGAGAACCTGGACTCGGAG
ACGTCCGCCAGCACCGAGAGCCTGCTGGAGGAGCGGGCCGGGCGGGGGCCTCGGAAGGGCCCCCTGCGCCTGCT
CTCCCTTGCCCCGGCGCGCCACCCCGAGCCCCCTCCCCACCGTGGCCGCCCTCCACGACGAAGGCCGCTCGTCC
TTCGTAACGGTCAGAGTGAAGACCCCCGGCGGACCCCCATCATGCCACGGCCAACATCAAGCTCCCACCAAGGC
CTGCCCTCCCACCTGCCTCGCTGGGCACCGGTGCCCGGGAGGCGGCTGCCCAGTGCGGCGCCGGGAGCCACCT
GCCCCGCCCGCGGACCAGATACATTCCGTGTACATACGCCCGGGGACAGCTGCCAGTGCAGGGCGCCCTGGAG
CCCCTAGAAGAGGATGGCCAGCCACCTGGGGCCAAGCGGAGGTACTCGGATCCCCCAACGTACTGCCTGCCCCC
GCCTCGGGCCAGACCAATGGCTGAGAGCCACAGCTGACAAAGTCTGCATGTCCGAGGACGGCCCCCTGCACTGGAG
CTGGGCGCCAGAGCTGCAGAGCTAGTGTTGGGCCCTCAGAGAAGGATCCAGAATCAAAAGCTCAAGAGTGACGTG
AGGTGGGCACCGGCCCAAGTGCAGAGTCAAGGCAGGGAGAGGCGGCTGGAGCCAGGCCCCCTCGCACGCAGCC
CCCAAATCATGGACGCACCTGTGGGGAGCACCATCTCCACCTGCGGCCTCACATCTCCCCACTCCCCCTTTTG
TACGTTTAACTGTTTCTTTGTACGTGGTTTACGTAACTTTAAACTGTAACAGCCTTAATGGAAGACCAATGGTT
TTTTATATGTGTATGTACAAAGTTTTCTATTAACGCTGCCCGTCTCCCTTATAACCTGGACGTGAGCTGTCAGAG
CAGAAGCCACTAGGCCACTGCGCGTCTGAGGCTCAGACCCTGCTGTGGTTGGCTTGGGGTGGCCAATGGGCTGGG
ACCCTCCATGAGAGTTTTGGACACTTGGGTACCTGACCCGTGCCTCTCTGACACATGTCTCCGGGGGGCAGCCA
CCTGGCCAATGTGCATTTTTGCACATGCTGGAACCTTCATGGGGGTCTGGGCTATTGGCTGGAGCCAGGACATG
AGTCAGGGGCACCATGGACCTCAGTGCCAGGGAGACTTGAATGTGGCTGTCACTCTTCCGGACGCCAAGGGCTG

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FIGURE 5325C

CAGGAGGCTGCTTTTGGCACTACCCACCCCGTGTGACAGAATAGGAGCCAGCGACTCAGGACTGCTCACGGGTCA
GGAGGGCAACGCCCTGAAGTCAGACCTCCCTATAGGTCAACAGGGACAACCTGGGGATCTCTGGAGCAGGGCCCTC
CTCTCTCAGGCTTGGCCCACTCCCCCAGACACCTGGACACGTGGCCACAAATCTGGGACAAGGGGCCCCCGCACA
GCATGAAATAAAAAGTGCCTGAGAAGTGTG

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FIGURE 5326

CCTGATCAGCGGGGCCGGGGCGGGCGCCGTACAACCTCCGGCTGTAAAGATGGCGGCTTCCTAGTGAGTCGGCGG
CTGATTTAGAAGGAGGTTTCAGGCTACGGTGAGCCGAAGCCACACAGGAGCC**ATGGA**AGTGGCAGAGCCCAGCAGC
CCCCTGAAGAGGAGGAGGAGGAAGAGGAGCACTCGGCAGAGCCTCGGCCCCGCACTCGCTCCAATCCTGAAGGG
GCTGAGGACCGGGCAGTAGGGGCACAGGCCAGCGTGCGCAGCCGAGCGAGGGTGAGGGTGAGGCCGCCAGTGCT
GATGATGGGAGCCTCAACACTTCAGGAGCCGGCCCTAAGTCCTGGCAGGTGCCCCGCCAGCCCCTGAGGTCCAA
ATTTCGGACACCAAGGGTCAACTGTCCAGAGAAAGTGATTATCTGCCTGGACCTGTCAGAGGAAATGTCACTGCCA
AAGCTGGAGTCGTTCAACGGCTCCAAAACCAACGCCCTCAATGTCTCCCAGAAGATGATTGAGATGTTTCGTGCGG
ACAAAACACAAGATCGACAAAAGCCACGAGTTTGCACTGGTGGTGGTGAACGATGACACGGCCTGGCTGTCTGGC
CTGACCTCCGACCCCCGCGAGCTCTGTAGCTGCCTCTATGATCTGGAGACGGCCTCCTGTTCCACCTTCAATCTG
GAAGGACTTTTCAGCCTCATCCAGCAGAAAACCTGAGCTTCCGGTCACAGAGAACGTGCAGACGATTCCCCGCCA
TATGTGGTCCGCACCATCCTTGTCTACAGCCGTCCACCTTGCCAGCCCCAGTTCTCCTTGACGGAGCCCATGAAG
AAAATGTTCCAGTGCCCATATTTCTTTGACGTTGTTTACATCCACAATGGCACTGAGGAGAAGGAGGAGGAG
ATGAGTTGGAAGATATGTTTGCCTTCATGGGCAGCCTGGATACCAAGGGTACCAGCTACAAGTATGAGGTGGCAC
TGGCTGGGCCAGCCCTGGAGTTGCACAACCTGCATGGCGAAACTGTTGGCCCCCCCCCTGCAGCGGCCTTGCCAGA
GCCATGCTTCCTACAGCCTGCTGGAGGAGGAGGATGAAGCCATTGAGGTTGAGGCCACTGTCTGAACCATCCCTG
TACATCTGCACCTTCTTGTGCAAGGAAGTCCTTGGCCTAAAGCCTTGTTCTCAAACCTGGGTTCCTTGGGACCTC
CGGGGTGGGGGGTTCAGGAGGCACG**TAG**GGTACCTTGACGGGTCTAGGAGGGAACCCAGGATTCCAGGAGG
GATCCCAGGAACGTGGGCACCCATTTTCTGTGTCTCCAGCCCATTCCACTCCTAGTTTGTCTATGGATAATTT
TTGTTCTTCCCTGTGTGATTTTTGCCATCAAAATAAAAAATTTGAGACTCGTTAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 5327

MEVAEPSSPTEEEEEEHSAEPRPRTRSNPEGAEDRAVGAQASVGSRSEGEGEAASADDGSLNTSGAGPKSWQV
PPPAPEVQIRTPRVNCPKVIICLDLSEEMSLPKLESFNGSKTNALNVSQKMIEMFVRTKHKIDKSHEFALVVVN
DDTAWLSGLTSDPRELCSCLYDLETASCSTFNLEGLFSLIQKTELPVTENVQTIPPPYVVRTILVYSRPPCQPQ
FSLTEPMKKMFQCPYFFFDVVYIHNGTEEKEEEMSWKICLPSWAAWIPRVPATSMRHHWLGQPWSCCTTAWRNCWP
TPCSGLARAMLPACWRRRMKPLRLRPLSEPSLYICTFLCKEVLGLKPWFSNWVPWDLRGGGVPGGT

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FIGURE 5328

GTGGAATTCATGGCATCTACTTCGTATGACTATTGCAGAGTGCCCATGGAAGACGGGGATAAGCGCTGTAAGCTT
CTGCTGGGGATAGGAATTCTGGTGCTCCTGATCATCGTGATTCTGGGGGTGCCCTTGATTATCTTCACCATCAAG
GCCAACAGCGAGGCCTGCCGGGACGGCCTTCGGGGCAGTGATGGAGTGTCGCAATGTCACCCATCTCCTGCAACAA
GAGCTGACCGAGGCCCAGAAGGGCTTTCAGGATGTGGAGGCCCAGGCCGCCACCTGCAACCACACTGTGATGGCC
CTAATGGCTTCCCTGGATGCAGAGAAGGCCCAAGGACAAAAGAAAGTGGAGGAGCTTGAGGGAGAGATCACTACA
TTAAACCATAAGCTTCAGGACGCGTCTGCAGAGGTGGAGCGACTGAGAAGAGAAAACCAGGTCTTAAGCGTGAGA
ATCGCGGACAAGAAGTACTACCCAGCTCCAGGACTCCAGCTCCGCTGCGGCGCCCCAGCTGCTGATTGTGCTG
CTGGGCCTCAGCGCTCTGCTGCAGTTGAGATCCAGGAAGCTGGCACATCTTGGAAGGTCCGTCCTGCTCGGCTTT
TCGCTTGAACATTCCCTTGATCTCATCAGTTCTGAGCGGGTCATGGGGCAACACGGTTAGCGGGGAGAGCACGGG
GTAGCCGGAGAAGGGCCTCTGGAGCAGGTCTGGAGGGGCCATGGGGCAGTCCTGGGTGTGGGGACACAGTCGGGT
TGACCCAGGGCTGTCTCCCTCCAGAGCTCCCTCCGGACAATGAGTCCCCCTCTTGCTCTCCACCCTGAGATTG
GGCATGGGGTGCGGTGTGGGGGGCATGTGCTGCCTGTTGTTATGGGTTTTTTTTTTCGGGGGGGGGTGCTTTTTTC
TGGGGTCTTTGAGCTCCAAAAAATAAACACTTCCTTTGAGGGAGAGCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAA

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FIGURE 5329

MASTSYDYCRVPMEDGDKRCKLLLGIGILVLLIIVILGVPLIIFTIKANSEACRDGLRAVMECRNVTHLLQQELT
EAQKGFQDVEAQAATCNHTVMALMASLDAEKAQGQKKVEELEGETITLNNHKLQDASAEVERLRRENQVLSVRIAD
KKYYPSSQDSSSAAAPQLLIVLLGLSALLQ

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FIGURE 5330

TTCCGGCGGAAGTTGCTGGGCGCGGAAAGCCGGCAAGACCTTTTTTCCGCCATCATCGCTCACGCGCGCAACCC
TGGCGACGCGTGGTGGCGAGGCTCCGCCTCCCCACGCCATTGGCCAGCAGCTCCTCGGGCACGCGTATACTGCGC
TTCCGGGCAATCTCCGCCCCCCCCCCCCGCATGGCCTTCTGGGAGTTGTAGTTTCGGTCGCGAGCGCTGCCGTCCG
GAGGCGCTCCGAGGTTTCGAGGCTGTGCCCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGGATGGATCCCGTACC
CGGGACAGACTCGGCGCCGCTGGCTGGCCTGGCCTGGTCGTCGGCCTCTGCACCCCCGCCGCGGGGGTTTCAGCGC
GATCTCCTGCACCGTCGAGGGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTG
CCTTAGTTCTCTGGGCAGCCTAGAGAACCCGCGAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAG
CCCCCTGCCGCTGGGCTTCTCCCCCGTCTGCGACCCCATGGATTCCAAGGCCTCTGTGTCCAAGAAGAAACGCAT
GTGTGTGAAGCTGTTGCCCTGGGAGCCACGGACACGGCTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGAC
AGTGCTTGATACCTTCGAATAGGGGACATGGGCGGCTTTGCCATCTGGTGCAAGAAGGCCAAGGCCCCGAGGCC
AGTGCCCAAGCCCCGAGGTCTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGG
CGGCCTCCTGGAGCGGACAGCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGA
GGCCTCCAGCCTCTATGGCATCTCAGCCATGGATGGGGTTCCCTTCACACTCCACCCACGATTTGAGGGCAAGAG
CTGCAGCCCCCTGGCCTTCTCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAA
CTACGGCTTCGTGGTGGAGAAGACCGCGGCTGCCCGCCTGCCCCCAGCGTCTCATAGTCCCTCACCCTTCCGCG
GAAAGAGCCCCCTTACTCCACCTCCCCGCCAGCCTGGGGCCACCCCCCTCACTGCATCCTGGGGCCACCCCCAC
TCACTGCATCCTGGGAACCTTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGA
GGAGGGGGCGGGTCGAGGCTGCGTGGTGATGGGGTCTCCGCCCCACGCCCTGCCGGGCAGGGCTGGAGCTGGAC
AGAAGCCAGTGCCTTTAAGTCATTTGTGTCAAACCCTCTGGGGTCCGGAGGCTGTGCGGGTGTCTCCTGGCAA
TAAACACTACCCGGTTCTCGCC

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FIGURE 5331

GCTTCCTCCTCCCCGCCGCCGCCCTCGCCATGGCCGCGCCGGCCCCGGGCCTCATCTCGGTGTTCTCGAGTTCCC
AGGAGCTGGGTGCGGCGCTAGCGCAGCTGGTGGCCCAGCGCGCAGCATGCTGCCTGGCAGGGGCCCCGCCCGTT
TCGCGCTCGGCCTGTGCGGGCGGGAGCCTCGTCTCGATGCTAGCCCGCGAGCTACCCGCCGCCGTCGCCCCCTGCCG
GGCCAGCTAGCTTAGCGCGCTGGACGCTGGGCTTCTGCGACGAGCGCCTCGTGCCCTTCGATCACGCCGAGAGCA
CGTACGGCCTCTACCGGGGTGAGAGCTACGGGGGCCGCCGGGGATCACGCCGAGAGGGCCACAGCCACCGCCTACA
CCCCGGCTACGGAGGCCGCCGGGGGCCATGCCGAAAGGGCCGCGCCCACTGTCTGCACCTCGGGCTACGGGGGCCA
CTGGGTATCATGCCAAGAGGGCCGTGCCCACTGCCTGCACCTCGGCTACGTGGGTGCTGGGGGTCATGCCAAGA
GGGCCGCGCCACCGGTTGCCCTCGGCTACGGGGGCCACTGGGGGTATGCCGAGATGGTCACGCCCACTGCCTG
CACCTCGACTACGGGGGCCGCTGGGGGTCTAGCCGACAGGGCTCGCCCGCCTCCTGAACCCCGCCTACAGTGGGT
CCCGCAGGACCTCACTGCGCCCTCTGCCTTTATCTAGGCAGGGCTAGAAATGGTCTACTTGAGTCCGTCTTCCT
GCTTCATCCGGTGGCCAGGCAGAGGGAACGGCACGGGCAAGGGCCTGGAAGGGAATCCGAGTGGCCCATGTCAA
CGATGCCCATAACTACGCCCCGTAGCGGACGGGGGCACGAGGAATCAGGTGTAGAGCCTGAATCTCAGGGTCCTG
ATCTCTAACCCAGCGAGTTCTCGGGGATCCCTGGGCAGCTTTGCCGCTCTGATGGCTCTGCTTCCAGGCTGTT
ATCTTTGGCTTTGAGCCTCAGGATTCTATAGAATCAGAGGAGCGCGCTCTTTTAAAGACAGGGTAACTGAGGCTT
GGAGGAGCCTTGCCCTGGCCGAGGGAAGAGTGGGAGGGGCGGGCTCAAAGGCCAGGAACCTCAAGTCACTTGAGT
CTGGCAGCGTCAAGGGACACCCCATGCTGGGTGTGCCGTCTTCTCTTTGCATAGAATCTTGAGCTGATGATGGTT
TTGTGGGTTTTTTATTAAGAGAAAAGGCTTACTGAACGCTTTATATGCATCAATTCATGAGTCCGTACCACAGCC
TATGAGATGTTACACTCATTTACAGATGGAGAACTGAGGCCAGAAGAGGTGAGCTTACCTGCCCCAAGGCATCT
AGTGACCAGAGGGGCAGCCAGGGTGTGATCCTGCCTCATCTGACTTCGTAGTTGGGTACACATTTAACTTCCGCC
TTCCTGTGTGTGTTTTCCAAGAGCATCATTAAAAAGTTTTGGCCGGGTGCGGTGGCTCACGCGTGTAAATCCAGC
ACTTTGGGAGGCCGACGTGAGTAGATCACCTGAGGTCAGGATTTGAGACCAGCCTGGCCAACATGGCAAACTC
TGTCTCTACTA

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FIGURE 5332

AAGATGGCGGCGGTGGCTGGATCTGGGGCTGCCGCGGCTCCGAGCTCACTGCTCCTCGTGGTGGGCAGCGAGTTC
GGGAGCCCGGGGCTCCTCACCTACGTCTGGAGGAGCTCGAAAGAGGCATCCGGTCTTGGGATGTGATCCTGGC
GTCTGCAACCTTGATGAACAGCTCAAGGTCTTTGTGTCCCGACACTCTGCCACCTTCTCCAGCATTGTGAAAGGC
CAGCGGAGCCTGCACCACCGTGGAGACAACCTGGAGACCCTGGTCTCCTGAACCCATCAGACAAGTCCCTGTAT
GATGAGCTCCGGAACCTTCTGTTGGACCCTGCCTCTCACAAGCTACTGGTGTGGCTGGGCTCTGCCTGGAGGAG
ACGGGGGAGCTGCTGCTACAGACAGGGGGCTTCTCGCCTCACCATTCTCCAGGTCTGAAGGACAGAGAGATC
CGGGACATCCTGGCCACCACGCCCCACCTGTGCAGCCGCCATACTCACCATCACCTGCCCCACCTTCGGTGAC
TGGGCTCAGCCGGCACCCGCTGTGCCTGGCCTTCAGGGGGCGCTCCGGCTCCAGCTGCGGCTGAACCCCCGGCG
CAGCTGCCCCAACTCTGAGGGCCTGTGCGAATTCTGGAGTACGTGGCTGAGTCTCTGGAGCCACCGTCCCCCTTC
GAGCTGCTGGAGCCCCGACCTCCGGGGGCTTCTCAGGCTGGGCGGGCCTGCTGCTACATCTTCCCTGGAGGC
CTCGGGGATGCCGCTTCTTCGCCGTCAATGGCTTCACTGTGCTGGTCAACGGTGGCTCAAACCCCAAGTCCAGT
TTCTGGAAGCTGGTGCGGCACCTGGACCGCTGGATGCCGTGCTGGTGACCCACCCTGGCGCCGACAGCCTCCCC
GGCCTCAACAGCCTGCTGCGGCGCAAACCTGGCGGAGCGCTCCGAGGTGGCTGCTGGTGGGGGCTCCTGGGACGAC
AGGCTGCGCAGGCTCATCTCCCCAACCTGGGGGTCTGTCTTCAACGCCTGCGAGGCGCGCTCGCGGCTGGCG
CGCGGCGAGGATGAGGCGGAGCTGGCGCTGAGCCTCTGGCGCAGCTGGGCATCACGCCTCTGCCACTCAGCCGC
GGCCCCGTGCCAGCCAAACCCACCGTGTCTTCGAGAAGATGGGCGTGGGCGGGCTGGACATGTATGTGCTGCAC
CCGCCCTCCGCCGGCGCGGAGCGCACGCTGGCCTCTGTGTGCCCTGCTGGTGTGGCACCCCGCCGGCCCCGGC
GAGAAGGTGGTGCAGCTGTGTTCCCCGGTTGACCCCGCCCGCCTGCCTCCTGGACGGCCTGGTCCGCCTGCAG
CACTTGAGGTTCTGCGAGAGCCCGTGGTGACGCCCCAGGACCTGGAGGGGCGGGGCGAGCCGAGAGCAAAGAG
AGCGTGGGCTCCCGGGACAGCTCGAAGAGAGAGGGCCTCCTGGCCACCCACCCTAGACCTGGCCAGGAGCGCCCT
GGGGTGGCCCGCAAGGAGCCAGCACGGGCTGAGGCCCCACGCAAGACTGAGAAAGAAGCCAAGACCCCCCGGGAG
TTGAGGAAAAGACCCCAAACCGAGTGTCTCCCGGACCCAGCCGCGGGAGGTGCGCCGGGCGAGCCTCTTCTGTGCC
AACCTCAAGAAGACGAATGCCAGGCGGCACCCAAGCCCCGAAAGCGCCAGCACGTCCCACTCTGGCTTCCCG
CCGGTGGCAAATGGACCCCGCAGCCCGCCAGCCTCCGATGTGGAGAAGCCAGCCCCCCCCAGTGACGCTGCGGC
TCTCCGGCCTCCAGCTGGTGGCCACGCCCAGCCTGGAGCTGGGGCCGATCCAGCCGGGGAGGAGAAGGCACTG
GAGCTGCCTTTGGCCGCCAGCTCAATCCCAAGGCCACGCACACCCTCCCTGAGTCCCAACCGGAGCCCCGAGAG
GGCAGCGAGCGGCTGTGCTGAGGCCACTGCGGGGCGGGGAGGCCGGGCCAGACGCCTCACCCACAGTGACCACA
CCCACGGTGACCACGCCCTCACTACCCGCGAGAGGTGGGCTCCCCGCACTCGACCGAGGTGGACGAGTCCCTGTG
GTGTCCTTTGAGCAGGTGCTGCCGCCATCCGCCCCACCAGTGAGGCTGGGCTGAGCCTCCCGCTGCGTGCCCC
CGGGCGCGGCGCTCGGCTTCCCCACAGATGTGGACCTGTGCTGGTGTACCCCTGTGAATTTGAGCATCGCAAG
GCGGTGCCAATGGCACCGGCACCTGCGTCCCCCGGACGCTCGAATGACAGCAGTGCCCGGTACAGGAACGGGCA
GGTGGGCTGGGGGGCCGAGGAGACGCCACCCACATCGGTACGCGAGTCCCTGCCCCACCTGTCTGACTCGGATCCC
GTGCCCCGTGGCCCCCGGTGCGGCAGACTCAGACGAAGACACAGAGGGCTTTGGAGTCCCTCGCCACGACCCTTG
CCTGACCCCCCTCAAGGTCCCCCACCCTGCCTGACCCATCCAGCATCTGCATGGTGGACCCGAGATGCTGCC
CCCCAAGACAGCACGGCAAACGGGAAAGTCAAGCCGACCCGGAAGCCCCCTGGCCCCGCCCAACTCACGCGCTGC
CGCCCCAAAGCCACTCCAGTGGCTGCTGCCAAAACCAAGGGGCTTGCTGGTGGGGACCGTGCCAGCCGACCACT
CAGTGCCCGGAGTGAAGCCAGTGAGAAGGGAGGCGGGCACCCCTGTCCAGAAAGTCTCAACCCCCAAGACTGC
CACTCGAGGCCCCGTGCGGGTCAGCCAGCAGCGGCCCGGGGTGTGAGCCACCCACCCAAAGTCCCCGGTCTACCT
GGACCTGGCCTACCTGCCCAGCGGGAGCAGCGCCACCTGGTGGATGAGGAGTTCTTCCAGCGCGTGCGCGCGCT
CTGCTACGTCATCAGTGGCCAGGACAGCGCAAGGAGGAAGGCATGCGGGCCGTCTGGACGCGCTACTGGCCAG
CAAGCAGCATTTGGGACCGTGACCTGCAGGTGACCCTGATCCCCACTTTGACTCGGTGGCCATGCATACGTGGTA
CGCAGAGACGCACGCCCCGGCACCAGGCGCTGGGCATCACGGTGTGGGCGAGCAACAGCATGGTGTCCATGCAGGA
TGACGCTTCCCGGCCGTGCAAGGTGGAGTTCTAGCCCCATCGCCGACACGCCCCCACTCAGCCAGCCCGCCTG
TCCTAGATTACGCCACATCAGAAATAAACTGTGACTACACTTG

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FIGURE 5333

MAAVAGSGAAAAPSSLLLVVGSEFGSPGLLTYVLEELERGIRSWDVPDGVNLDLQKVFVSRHSATFSSIVKGQ
RSLHHRGDNLETLVLLNPSDKSLYDELRNLLLDPAASHKLLVLAGLCLEETGELLLOTGGFSPHHFLQVLKDREIR
DILATTPPPVQPPILITITCPTFGDWAQPAPAVPGLQGALRLQLRLNPPAQLPNSEGLCEFLEYVAESLEPPSPFE
LLEPPTSGGFLRLGRPCCYIFPGGLGDAAFFAVNGFTVLVNGGSNPKSSFVKLVRLDRVDAVLVTHPGADSLPG
LNSLLRRKLAERSEVAAGGGSWDDRLRRLISPGLGVFFNACEAASRLARGEDEAELALSLLAQLGITPLPLSRG
PVPAPKPTVLFKMGVGRDLMDYVLHPPSAGAERTLASVCALLVWHPAGPGKVVVRVLFPGCTPPACLLDGLVRLQH
LRFLREPVVTPQDLEGPGRAESKESVGSRDSSKREGLLATHPRPGQERPGVARKEPARAEAPRKTEKEAKTPREL
RKDPKPSVSRTQPREVRRASSVPSNLKKTNAQAAPKPRKAPSTSHSGFPPVANGPRSPPSLRGGEASPPSAACGS
PASQLVATPSLELGP IPAGEEKALELPLAASSIPRPRTSPESHRSAPAGSERLSLSPLRGGEAGPDASPTVTTP
TVTTPSLPAEVGSPHSTEVDESLSVSFEQVLPPSAPTSEAGLSLPLRGPRARRSASPHDVDLCLVSPCEFEHRKA
VPMAPAPASPGSSNDSSARSQERAGGLGAEETPPTSSESLEPTLSDDPVPLAPGAADSDDEDTEGFGVPRHDPLP
DPLKVPPPLPDPSSICMVDPEMLPPQDSTANGERQPHPEAPGPPQLTRCRPQSHSSGCCQNGACWWGPCQPTTQ
CPE

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FIGURE 5334

CTTTTGCGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACGCTACGAGAGTACAAGGTAGTGG
GTCGCTGCCTGCCCCACCCCAAATGCCACACGCCGCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTG
TCGCCAAGTCCCGCTTCTGGTACTTTGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT
GTGGGCAGGTGTTTGAGAAGTCCCCCTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCAGTGCTACCGAGACATGG
GTGCCCCGGCACCGCGCCCGAGCCCACTCCATTTCAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC
GGCCGGCTGTCAAGCAGTTCCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCTGCGCCGTCAGCACA
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTTCTAGGTGCAGGGCCCTCGTCCGGGTGTGCCCCAAATAA
ACTCAGGAACGCCCCGGT

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FIGURE 5335

MKASGTLREYKVVGRCLPTPKCHTPPLYRMRI FAPNHVVAKS RFWYFVS QLKMKMKSSGEIVYCGQVFEKSPLRV
KNFGIWLRYDSRSGTHNMYREYRDLTTAGAVTQCYRDMGARHRARAHSIQIMKVEEIAASKCRRPAVKQFHDSKI
KFPLPHRVLRRQHKKPRFTTKRPNTFF

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FIGURE 5336

CGGCGCTGGGGTAAGAAGCCTGCTGAGGGATGCCCAAGAAGTTCCAGGGTGAGAACACCAAGTCGGCAGCGGCC
GGGCACGTAGGGCAGAGGCCAAGGCGGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATGCCTACTGGAAGG
ACGACGACAAACACGTTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGGCGCCTCGACCAGCTGGAAC
GTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGCCGCGGGTGGCCA
CGTCCAGCAAGGTCACCCGGGCCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGGAGGCCCCGGACA
CAGCCGAGAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCGTGCTGGAGGAGGGCA
GCGTGGAGGCGCGCACCATCGAGGACGCCATTGCAGTGCTCAGCGTGGCGGAGGAGGCGGCCGACCGGCACCCAG
AAAGACGCATGCGGGCAGCCTTCACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAGAGAACCCCAACA
TGCGGCTGTGCGCAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCATGAACCAGCGGG
CCGTGCCCTTCAATGCCCCCAAGTGAGCCCAGAACTTGGGGAGCCAGTTACCCACGGGTGGTCCAGGTCACGAC
TCTGCACGCCCTTAGGCCAGGTCAGCTGCGAGGGTCACAGAGCGTTCCGGGGGCCAAGGCGCCGGGCCCCGGGGC
CATGCTCTTATCACCAGCCACCCGTCCTCCCGCCAGAGGGTCCCTGCCCGAGTGACACCCCATCCCCTCCCATC
CCCCGGCGCGTGTGTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCT

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FIGURE 5337

CCTGAAGGCTGTGGGACCCATGATCCTGGTTAGATTCTCCTTCTGCTTGTCCCTGGCTGTGCTGCCTCAGGCACA
TTACTTAACCTTTCTGGGCCTCTGCCACCTCATCTGTAAAATGGGCATGATGGTGAAGCCAGGTTGCCAGATAAA
ATATAGGCTACTCAGCTAAATGTGAAGTTCAGATCAATATTGAATTTGGTTTTACTGTAAGTATATCCCATGCAA
CATTTGGGATATACTTATACTAAAAAATTTATTTCATTGATGCTATGGTTTGAATGGTCCCCCAAAGTTCATAT
GTTTGAACTTAATCCTCAAAGCAGTCCTTTCAACCTTGTCAACCTGTCGGCGCGGCCTCTGGTGCAGTGGCGGC
GGCTCCTGTTTCTGCGCAGCTCTCTCCCCCTTCTTACCTCCCCACCAGATCCCGGAGATCGCCCCCCATGGCTTT
ACTTACTGCGGCGCGCGGCTCTTGGGAACCAAGAATGCATCTTGTCTTGTCTTGCAGCCCAGCATGCCAGTGC
TTCCTCCATGAATTTGAAAGACATATTGGCTGACCTCATACCTAAGGAGCAGGCCAGAATTAAGACCTTCAGGCA
GCAACATGGCAAGAAGGTGGTGGGCCAAATCACTGTGGACATGATGTATGGTGGCATGAGAGGCATGAAGGGATT
GGTCTATGAAACATCAGTTCTTGATCCTGATGAGGGCATCCGTTTCTGAGGCTTTAGTATCCCTGAATGCCAGAA
ACTGCTACCCAAGGCTAAGGGTGGGGAAGAACCCTGCCTGAGGGCTTATTTTGGCTGCTGGTAACTGGATGTAT
CCCAACAGAGGAACAGGTATCTTGGCTCTCAAAGAGTGGGCAAAGAGGGCAGCTCTGCCTTCCCATGTGGTCAC
CATGCTGGACAACCTTTCCCAACATCTACACCCCATGTCTCAGCTCAGTGCAGCTGTTACAGCCCTCAACAGTGA
AAGTAACTTTGCCAAGCATATGCACGGGGTATCAGCCGAACCAAGTACTGGGAGTTGATTTATGAAGACTCTG
TGGATCTAATCACAAAGCTACCTTGTGTCGCAGCAAAGATCTACCGAAATCTCTATGGAGAAGGCAGTGGTATTG
GGGCCATTGACTCTAACCTGGACTGGTCTCACAGTTTACCAACATGTTAGGCTATACTGATCATCAGTTCCCTG
AGCTCATGCACCTGTACCTCACTATCCACAGTGACCATGAGGGCGGCAATGTAAGTGCCCATACCAGCCACTTGG
TGGGCAGTGGCCTTTAGACCCCTTACCTGTCTTTGCAGCAGCCATGAACGGGCTGGCAGGGCCTCTCCATGGAC
TGGCAAATCAGGAAGTGCTTGTCTGGCTAACACAGCTGCAGAAGGAAGTTGGCAAAGATGTGTGAGATGAGAAGT
TATGAGACTACATCTGGAACACACTCAACTCAGGACGGGCTGTTCCAGGCTATGGCCATGCAGTACTAAGGAAGA
CTGATCCACGATATACCTGTGACGAGAGTTTGTCTGAAACACCTGCCTAATGACCCCATGTTTAAAGTTGGTTG
CTCAGCTATGCAAGATTGTGCCCAATGTCTCTTAGAGCAGGGTAAGGCCAAGAATCCTTGGCCCAATGTAGATG
CTCACAGTGGGGTGTCTGCTCCAGTATTATGGCATGATGGAGATGAATTACTACACAGTCTGTGTTGGGGTGTAC
GAGCATTGGGTGTACTGGCACAGCTCATCTGGAGCCGAGCCTTAGGCTTCCCTCTAGAAAGGCCCAAGTCCATGA
GCACAGAGGGTCTGATGAAGTTTGTGGACTCTAAGTCAGGGTAAACTGGAGACTGGGGGAAAAGTGACTACCAGA
AAGTGAGGAAGCCTAAATAAAAAAGTATACTTTTGTTCAGGGGGCCTTTAAAGACTTAAGATTAAATTATATCTG
AGGCACTGATAATATGTTTGAGGTTAAATATAAATTAAGACTTTTAAAGATGAAAAATGGTCCCTTCTTCCCTA
ATCAGCTCCTTTCCCTGCCTGGTATGAGTTGCCCATCACAGGCATGGTCCTGGAGGATGACCAGGACTAATGCA
TGTGGTATGAGTAGGTTTGGCCCCCTCACTATCTCTAGAGTGAGAATCTGGCTCCTGTTTCCATGGCTCAAAGCC
GGTTGCAGAGAATCTGCAGTCACTTCGGAGCTTTAGCTTCTTCTGCCAAGCCCTCAATAAGCCAGCAAACCAG
GACTCTGCCCCCTTCTGTTTCCATAGGAATCATGTTGGATAGTCAGCTGTACCAAGCCCCCTTGGCCTTCCCATGCA
CACAAACACCTCCTAGCAAGACCTGTTGGTTAGCTGGACATGCTTTGGCAATTTTTTTTATACTGCCAAGTGACCA
TAAAGGCATGGCATTGTTGTGACTGGCACCCAATGTTTGATTTTTTTTTTAACTATCCAATTAATAAAGT
CTGGGAGTGTCTGTTTCCCATTACTTTAATACTACCCCCCTCCAGACTTTCTACACCTGTTTACCTCAGGC
TGAGGATGTTCTGGACCTCCCCCTTAGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCCAGTCATTGGG
TTTTATCAGTGCTTAATGTGAACCTAAGTTTTTACTTCCAACAGAATACAAGCCACTACCTTCTGACCTCCCCAC
CCCCACCAACCCCCAGCTTTAATATGCTGTGGGGCATAGAACAGGGACTCCGGAATGACCAGCATGATATTTT
CAGAGTCTTGTCCCTGGGGTATTAGCACCTCTTTTTGAACAGAGAATTGATTCAAGATTGGACATGGTCTCCTCT
GATTATCAGGTACTGGGGCTGAGGGCATTAAAAATAGTAAGCCTCCTTCTCGTCCCCTGCCTCAAGAAATTGCC
TCCTTATTTATCAACATCTTTTCTCCCTTCCCTGAGAGCTCACAGTACAATGTTTGTTCAGAAAGCCCCATT
TGCACAGGTTTTTCAGCAACTCAGAAATGCTCTACTTCTTTTTCTTTGAGAAAGGATTGAGATACGCTCCTGCTGTG
CCCCATCTTCTCCAAACTCCTGCCTGTGTTTGTGTGGATACCCAGTCCCAGAACCACTGTTGAGTTGGAC
ACACTGTAAACCCCTGGCTAACTGTCAAGTCATGATGCAGACTTCAGGTTGTTCTGTATAAAATGCAAAATAAAT
GTTTAAATTAAC

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FIGURE 5338A

TGGGCACTGAGCACATTTCGGTTATTTCCAGAAACGCTCCGCGGTCTTGGGGATCAGCCTCAGTTGTGCCAGTGCG
GCCGTAGAGAGTGTTCGGCCATTTCCGAAAGCGCTCGGGCGTCTCTAAGCCCAGCCGAGCCCAGTCTCGGATCCC
TCGCCGACCCGATTGCACTCGGCTACCTCTGGAAACGCTCGGCTGTCTCGGGGGCACCTCTAGTCCACCAGTCC
CGCGGGATTACGTTTCGGCTACTTCCGGAAACACTCGGGTGCCCCCTTACCTCAGGCTCCGCTCGGCCCTCGGTTTC
ATCCGCCCCGGCTCGAATGCGCTCGGGCATTTCGCCCGGGGGCGGGCCAGGCCGCTCGGAACCGTGCGGCGCGCGG
AGGCGGGGATCCCGCGGCTGCGGCGACGGTGGCCGCGGTGGAGCCACGGGGCGGGCTTGGCTTGGTGTGACGGCG
GCTGCGGCGGCGGTGGCGGCCGCGACAGGTGGCGTCTCTAGCTGGCCGAGCATGGTGGCAGCCTGCACCCTTG
GCTCCCTTGTCTGGTGCAGCCAGCAGAGCCGCCAGCCTTGGGCGCCCATGGCCCTCCGTGTGAGGGCGTGAGCGG
CCTGCCCCAGCCTCACCTGCTGATGGAGGACTCAATGGCCAGTGACCTGACACCACACCACCAACTCCCTCCCA
CCAGCTGACGAATGGTGGACCCAGTGACGAGTGGCCCTTGTAAAGGTTCATGGAATAATTTGAAGCGAGGCATGAG
CGGCCCCGTGGTTCGCTGTGACTGCTGGAGATAGAGGTCCCAGCACCCCAAGCCAACCCAGCGGACCCTCCCAG
CCCTGCTTCAACCAATGGGGCCAGTGGGGCTCCAAGCAGCCACCTAACCATCCAGACCCCAACCCACTCACGCGG
CCATGGCGGGCCCTGAGGGCTTCCAGTACCGCGCTCTGTACCCGTTCCGCCGGGAGCGGCCGGAGGACCTGGAGC
TGCTGCCCCGCGACGTGCTGGTAGTGAGCCGGGCGGCCCTTGACGGCGCTGGGCGTGGCCGAGGGTGGCGAGCGCT
GCCCCAGAGCGTGGGCTGGATGCCCGGCCCTCAACGAGCGCACACGGCAGCGAGGTGACTTCCCTGGCACCTATG
TGGAGTTCCTGGGGCCCGTGGCCCTGGCCCCGGCCCGGCCCTCGCCACGGGGCCCCCGCCACTGCCCGCCAGGC
CCCGTGATGGGGCCCTGAGCCAGGCCTCACACTCCCCGACTTGCCCGAGCAGTTCTCCCCACCTGATGTGGCTC
CCCCTCTTCTGGTGAAGCTTGTGGAGGCCATTGAAAGGACAGGGCTGGACAGCGAATCTCACTACCGCCCGGAGC
TGCCCGCACCGCGTACAGACTGGTCCCTGAGCGACGTGGATCAGTGGGACACGGCAGCCCTGGCTGACGGCATT
AGAGCTTCTGCTGGCACTGCCCGCGCGCTCGTGACCCCCGAGGCCTCGGCCGAGGCGCGCCGGGCCCTGCGGG
AGGCCGCGGGGCCCGTGGGGCCGGCGCTGGAGCCACCGACGCTGCCGCTGCACCGCGCGCTCACGCTGCGCTTCC
TGCTCCAGCACCTGGGCCGCTGGCCAGCCGCGCCCGGCCCTGGGTCCCGCGGTCCGGGGCCCTGGGCGCCACCT
TTGGGCCGCTGCTGCTGCGCGCGCCGCGCGCCGCTCTCGCCGCGCCAGGGGGCGCTCCCGACGGGAGTGAGC
CCAGCCCTGACTTCCCGGCGCTGCTGGTGGAGAAGCTGCTTCAGGAACACTTGGAAGAGCAGGAGGTTGCGCCCC
CAGCGCTGCCGCTAAACCCCCCAAGGCAAAGCCGGCCTCCACAGTCTTGCCAATGGAGGGAGCCCACCCTCCC
TGCAGGATGCTGAGTGGTACTGGGGGGACATTTCAAGGGAGGAGGTGAACGAGAAACTCCGGGACACTCCCGATG
GCACCTTCTAGTCCGAGATGCTTCTAGCAAGATCCAGGGCGAGTACACGCTGACCCTCAGGAAAGCGGGAACA
ATAAGCTGATCAAGGTCTTCCACCGAGATGGGCATATGGCTTCTCAGAGCCACTCACCTTCTGCTCCGTTGTGG
ACCTCATCAATCACTACCGCCACGAGTCTCTGGCCAGTACAATGCCAAGCTGGACACACGGCTCCTCTACCCTG
TGTCCAAATACCAGCAGGACCAGATTGTCAAGGAGGACAGCGTGGAGGCAGTGGGCGCCAGCTTAAGGTCTATC
ACCAGCAGTACCAGGACAAGAGCCGCGAGTATGACCAGCTTTATGAAGAGTACACACGGACCTCCAGGAGCTGC
AGATGAAGCGTACTGCAATTGAGGCCTTCAATGAGACTATCAAGATCTTTGAAGAGCAGGGCCAGACTCAAGAGA
AATGCAGCAAGGAATACCTGGAGCGCTTCCGGCGTGAGGGCAACGAGAAAGAGATGCAAAGGATCTGTGAACT
CCGAGCGGCTCAAGTCCCGCATTGCCGAGATCCATGAGAGCCGCACGAAGCTGGAGCAGCAGCTGCGGGCCAGG
CCTCGGACAACAGAGAGATCGACAAGCGCATGAACAGCCTCAAGCCGGACCTCATGCAGCTGCGCAAGATCCGAG
ACAGTACCTCGTGTGGCTCACCCAGAAAGGCGCCCGGCAGAAAGAAATCAACGAGTGGCTGGGGATTAAAAATG
AGACTGAGGACCAGTACGCACTCATGGAGGACGAGGACGATCTCCCGCACACGAGGAACGCACTTGGTACGTGG
GCAAGATCAACCGCACGCAGGCAGAGGAGATGCTGAGTGGCAAGCGGGATGGCACCTTCTCATCCGCGAGAGCA
GCCAGCGGGGCTGCTACGCCCTGCTCCGTGGTAGTGGACGGCGACACCAAGCACTGCGTCACTACCGCACGGCCA
CCGGCTTCGGCTTCGCGGAGCCCTACAACCTGTACGGGTGCTGAAGGAGCTGGTGTGCTGCACTACCAGCACGCCT
CGCTGGTGCAGCACAAACGACGCGCTACCGTACCCCTGGCGCACCCAGTGCGCGCCCCGGGGCCCCGGCCCGCGC
CTGCCGCCCCGTGAGCACCGAGGACCCGCCCCAAGCAGAGCCGCCCCCTGGGCCCCGTCTGCGCCGGAGGCTGCGGC
GGCGGGAGCCACGGACCAGACCAGCCACATCCAGGGGTCTCATTTCTCCGGCTCTGGCTCTTGTGTTGGGGTTCT
CTACCCCTCTTCTCTTCTTCTTCCCTCCCCATTCTCCAGATCTCCCTCTGTCTCCTTTTCTGTCTTTCTTGG
CCCCTGTCTCTCTCCATGTTGGGGTCTTAACCTCCCCACCCCATATCTACGTGTCTTCCGGGCATTGCCCTCTC
CATGGCTCTGGTACCCCTGACCCTCTGCCCTGCCACCGCAGGTCCCCCGGGGTCCCGGAAGCCCCCTTCTGGCTG
CACCTGCCATGTTTACAGAGGGGCCCTGGGCTGCGCGGCCCGCAGCCTGGGCACCCCTGATTTTTAAGCCATAGACC
TGGGGTCAGGGCAGGAAGGAACCTCACTCTGCTGCTTCCGAGAACCTCGGCCGTGACATTGGGGCCGGGCGGGA

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FIGURE 5338B

CCCGCCCCACAGACTCCAACTTCCCCTCCAAACCCCGAAGTGAAACCCGCCACCGGGTTACCCCCACAAGGGGGC
CGCTGCGAGAAGTTCACCCACCCCGAAAAAATAATTAAACTCGCAGGCCAGGCACGGTGGCTCATGCCTGTAAT
CCCAGCACTTTGGGAGGCCAAGACGGGCGGATCTTTTGAGGTCGGGAGTTGGAGGCCAGCCTGGCCAAAATGGCA
AAACCCCGCATCTACTAAAATACAAAAATTAGCCGGGCGTGGTGGCGGCCGCCTGTAATCCCAGCTACTTGGGAG
GCTGAGGCGTGAGAATCTCTTGAACCCAGGAGATGGAGGTTGCAGTGAGCAGAGATCGTGCCACTGCACTCCAGC
CTGGGTAACAGAGGGGAGACTCCTCCGTCTCAAAAAAATAAATAAAATAAACTTGTGAGCTGGCCCCAACCCCTCCT
AGGAATCACAGCTCCCCGTACTGGTGCCGCCGAGTGGCCAAGTTGCGACACTGCCCACGGCCCCCTCCCTCTGAT
GCAGATTCAGGGCTTCTCTTCGATCATGTTGGGTTTTGATTCTGTTTTTCCTTGACTGCAAAACCCCTCTTCCTC
TCCTCTTTTGGGACAAGAGCCCTGGTTTTCTACGCTGCCCTTGGCCACCACACTGCCTGCCCCACGAGCTGGGAG
GCAGGTTTTGTACGGTACGTTGTTATTGATATGATATAAAACATCAAACGTC

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FIGURE 5339

GGACCGCCGCTGGTTAAAGGCGCTTATTTCCAGGCAGCCGCTGCAGTCGCCACACCTTTGCCCTGCTGCGAT
GACCCCTGTCGCCACTTCTGCTGTTCCCTGCCACCGCTGCTGCTGCTGCTGGACGTCCCCACGGCGGCGGTGCAGGC
GTCCCCCTCTGCAAGCGTTAGACTTCTTTGGGAATGGGCCACCAAGTTAACTACAAGACAGGCAATCTATACCTGCG
GGGGCCCCCTGAAGAAGTCCAATGCACCGCTTGTCAATGTGACCCTCTACTATGAAGCACTGTGCGGTGGCTGCCG
AGCCTTCCTGATCCGGGAGCTCTTCCCAACATGGCTGTTGGTCATGGAGATCCTCAATGTCACGCTGGTGCCCTA
CGGAAACGCACAGGAACAAAATGTCAGTGGCAGGTGGGAGTTCAAGTGCCAGCATGGAGAAGAGGAGTGCAAATT
CAACAAGGTGGAGGCCTGCGTGTGGATGAACCTTGACATGGAGCTAGCCTTCCTGACCATTGTCTGCATGGAAGA
GTTTGAGGACATGGAGAGAAGTCTGCCACTATGCCTGCAGCTCTACGCCCCAGGGCTGTCGCCAGACACTATCAT
GGAGTGTGCAATGGGGGACCGCGGCATGCAGCTCATGCACGCCAACGCCCAGCGGACAGATGCTCTCCAGCCACC
ACACGAGTATGTGCCCTGGGTCACCGTCAATGGGAAACCCTTGGAAGATCAGACCCAGCTCCTTACCCTTGTCTG
CCAGTTGTACCAGGGCAAGAAGCCGGATGTCTGCCCTTCCTCAACCAGCTCCCTCAGGAGTGTTTGCTTCAAGTG
ATGGCCGGTGAGCTGCGGAGAGCTCATGGAAGGCGAGTGGGAACCCGGCTGCCTGCCTTTTTTTCTGATCCAGAC
CCTCGGCACCTGCTACTTACCAACTGGAAAATTTTATGCATCCCATGAAGCCCAGATACACAAAATTCCACCCCA
TGATCAAGAATCCTGCTCCACTAAGAATGGTGCTAAAGTAAAAGTAGTTTAAT

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FIGURE 5340

MTLSPLLLFLPPLLLLLDVPTAAVQASPLQALDFFGNGPPVNYKTGNLYLRGPLKKSNAPLVNVTLYYEALCGGC
RAFLIRELFPTWLLVMEILNVTLPYGNAQEONVSGRWEFKCQHGECKFNKVEACVLDELDMELAFITIVCME
EFEDMERSLPLCLQLYAPGLSPDTIMECAMGDRGMQLMHANAQRTDALQPPHEYVPWVTVNGKPLEDQTQLLTIV
CQLYQGKKPDVCPSTSSLSVCFK

5796/6881
FIGURE 5341

ATGTGCCCAGAAGGATGTCAGTACACGGGGAGGGGCCACACGCTGAGGACCCCGCAGCTAGGCGAGGCAGGAGGC
CTCCACCAGCCTCCAGGCCTCTGCCC GCGCCGTTCCCTCCGCTGGAAATGCGCCTCCCGCCCCAACCCAACCTG
TGTTTACTGCGACTTCCCTCCCTTCGGCCTGGCCCTGACCCCTCCGGGGCAGGGCGTGTCCGTGTCTGGCTGCTA
GCACCACCCTGCCCTCAGTCTGTTCAGCGGGGAAATGGCTCAGTACCTGGAAAAGCCACGAGTATGTGGTCGGATG
CAGGCAAAACCCACACATCATGACACTGCCCTGAGAAGTGGGATAACGTCCCTCACCCTCGTGGAGCTGCTGCT
GAGATAAAGGTGAAAATGCAGAGTCCCGGACCAAGCCCTAGTGTTGCCCCAACCTCATCTGCAACTTTCATTGCC
TTGGGGACTTTCAGGATTAAGCGATTCTGGACAAGAAACAAAAGCAAAATCGTCCCATTCCTCCAGTGGATTTGG
ATGAAAACCTGGAAATAAAATCAGGTACAAC TCCAAAAGGACACTGGAGAAGAACCAAGCTGGGTCTATAAGGAAT
TGCACATGA

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FIGURE 5342

MCPEGCQYTGRGHTLRTPQLGEAGGLHQPPGLCPRRSLRLECASRPNPTLCLLRLP SLRPGDPSPGAGRVRVWLL
APPCPQSVSGEMAQYLEKPRVCGRMQAKPTHHD TALRSGITSLTTRGAAAEIKVKMQSPGPSPSVAPTSSATFIA
LGTFRIKRFLDKKQKQNRPIQWIMKTGNKIRYNSKRTLEKNQAGSIRNCT

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FIGURE 5343

GCAACCTGCACAGCCATGCCCCGGGCAAGAACTCAGGACGGTGAATGGCTCTCAGATGCTCCTGGTGTGCTGGTG
CTCTCGTGGCTGCCGCATGGGGGCGCCCTGTCTCTGGCCGAGGCGAGCCGCGCAAGTTTCCCGGGACCCTCAGAG
TTGCACTCCGAAGACTCCAGATTCCGAGAGTTGCGGAAACGCTACGAGGACCTGCTAACCAGGCTGCGGGCCAAC
CAGAGCTGGGAAGATTCTGAACACCGACCTCGTCCCGGCCCTGTCAGTCCGGATACTCACGCCAGAAAGTGC GGCTG
GGATCCGGCGGGCCACCTGCACCTGCGTATCTCTCGGGCCGCCCTTCCCGAGGGGCTCCCCGAGGCCTCCCGCCTT
CACCGGGCTCTGTTCCGGCTGTCCCCGACGGCGTCAAGGTCGTGGGACGTGACACGACCGCTGCGGCGTCAGCTC
AGCCTTGCAAGACCCAGGCGCCCGCGCTGCACCTGCGACTGTGCGCGCCGCGCTCGCAGTCGGACCAACTGCTG
GCAGAATCTTCGTCCGCACGGCCCCAGCTGGAGTTGCACTTGC GGCCGCAAGCCGCCAGGGGGCGCCGCAGAGCG
CGTGCGCGCAACGGGGACCACTGTCCGCTCGGGCCCCGGGCGTTGCTGCCGTCTGCACACGGTCCGCGCGTCGCTG
GAAGACCTGGGCTGGGCCGATTGGGTGCTGTGCGCCACGGGAGGTGCAAGTGACCATGTGCATCGGCGCGTGCCCG
AGCCAGTTCCGGGCGGCAAACATGCACGCGCAGATCAAGACGAGCCTGCACCGCCTGAAGCCCGACACGGTGCCA
GCGCCCTGCTGCGTGCCCGCCAGCTACAATCCCATGGTGCTCATTCAAAAAGACCGACACCGGGGTGTCGCTCCAG
ACCTATGATGACTTGTTAGCCAAAGACTGCCACTGCATATGAGCAGTCCTGGTCCTTCCACTGTGCACCTGCGCG
GAGGACGCGACCTCAGTTGCTCTGCCCTGTGGAATGGGCTCAAGGTTCTGAGACACCCGATTCTGCCCAAACA
GCTGTATTTATATAAGTCTGTTATTTATTATTAATTTATTGGGGTGACCTTCTTGGGGACTCGGGGGCTGGTCTG
ATGGAACCTGTGTATTTATTTAAACTCTGGTGATAAAAATAAAGCTGTCTGAACTGTT

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FIGURE 5344

MPGQELRTVNGSQMLLVLLVLSWLP HGGALSLAEASRASFP GPSELHSEDSRFREL RKRYEDLLTRLRANQSWED
SNTDLVPAPAVRILTPEVRLGSGGHLHLRISRAALPEGLPEASRLHRALEFRLSPTASRSWDVTRPLRRQLSLARP
QAPALHLRLSPPPSQSDQLLAESSARPQLELHLRPQAARGRRRARARNGDHCP LGPGRCCRLHTVRASLEDLGW
ADWVLSPREVQVTMCIGACPSQFRAANMHAQIKTSLHRLKPDTPAPCCVPASYNPMVLIQKTD TGVS LQTYDDL
LAKDCHCI

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FIGURE 5345

GAGGAAAAAAGCCACCCTGCGGCCGGGGCCGGAGCTGGAGCCGCCGCTGCCGCCGCCGCCGCCGCCGCGTCTGGAG
CTCCCCCGCGCGGACGATGCTTGCCGTGCCCGCTGGGGCTCGGGGCGGTGAGGCCCGGGGCGCGGGGTAGCTAT
GGCGACGGCAAGCGCGGCCCGCGGCCCGCTGACAGGTGTGGGCCCCGGCGGGCGGGCGGTGGAGCAGCATGTA
CGCCAAGGGGGGCAAGGGTTTCGGCCGTGCCCTCCGACAGCCAGGCCCCGCGAGAAGTTGGCGCTGTACGTTTATGA
GTACCTGCTGCACATCGGTGCCCAGAAGTCAGCCCAGACCTTCCTGTCTGAGATCCGATGGGAGAAGAACATCAC
GCTGGGGGAGCCCCCTGGGTTCTTGCACTCCTGGTGGTGCCTCTTCTGGGACCTGTACTGCGCGGCGCCTGACAG
AAGAGAGGCCTGCGAGCACTCCGGCGAGGCCAAGGCCTTCAGGACTATAGTGCTGCAGCCGCCCCAGCCCCGT
TATGGGGAGTATGGCCCCAGGTGACACAATGGCCGCAGGCTCCATGGCGGCTGGCTTCTTCCAGGGCCCCCCCCGG
CTCCCAGCCGTCCCCCACAACCCCAACGCCCCCATGATGGGGCCTCACGGTCAGCCCTTCATGTCACCGCGCTT
CCCAGGGGGCCCCCGGCCACCCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCCTGGCTCCCAGCCCCCTCCT
CCCTGGCGCCATGGAGCCCTCCCCACGAGCCCAGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCC
TCCTCGTGGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCCAACCTCCCTCGCCGG
CCCAGGCCTGCCTGCCATGAACATGGGCCCAGGAGTTCGTGGCCCGTGGGCCAGCCCCAGTGGAAACTCGATCCC
CTACTCCTCCTCATCCCCGGCAGCTACACCGACCCCCAGGAGGAGGTGGGCCCCCTGGAACACCCATCATGCC
TAGCCCTGGAGATTCCACCAACTCCAGCGAAAACATGTACACTATCATGAACCCCATCGGGCAGGGCGCCGGCAG
GGCTAATTTCCCGCTCGGCCCTGGCCCGGAGGGCCCCATGGCCGCCATGAGCGCGATGGAGCCTCACCACGTGAA
CGGATCCCTGGGCTCGGGCGACATGGACGGGTGCCGAAGAGTTCCCCCGGCGCCGTGGCCGGCCTGAGCAACGC
CCCGGGCACCCCGCGGGACGACGGCGAGATGGCGGCCGCCGGGACCTTCCTGCACCCGTTCCCGAGCGAAAGCTA
CTCGCCAGGGATGACCATGAGCGTTGATGGGGCGGCAGCCCCGGGCCTCTCTGCGGGCCTAGGCTTCTGCCCAG
CGCCCCCTGCTCAGGGCGAGGGGCTGAGGTACACCTCGGGCACCTGGACTCCTGGCCAATCAAGGCTTGCCCAGC
TGGGAGGCCCCACACGAAAGACTCTTACCATTTTATTAAAAACGCAAGGACCTCAGAGACGTTCTTTTCTGTATG
GACCCCTCCTGCCATTTGTATTTTGTCCAGAGAGAAAGGCTCTTTGGGGGGCCCCCTCTCCCCAGGACGTCAGGG
GGTGGGGCCCATAAATAAATGGAAGCTGGTTTTGGTTTTTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5346

MYAKGGKGSAPVSDSQAREKLALYVYEYLLHIGAQKSAQTFLSEIRWEKNITLGEPPGFLHSWVCVFDLYCAAP
DRREACEHSGEAKAFQDYSAAAAPSPVMGSMAPGDTMAAGSMAAGFFQGPPGSQPSPHNPNAPMMGPHGQPFMSF
RFPGGPRPTLRMP SQPPAGLPGSQPLLPGAMEPSPRAQGHPSMGGPMQRVTPPRGMASVGPQSYGGMRPPPNL
AGPGLPAMNMGPVVRGPWASPSGNSIPYSSSSPGSYTGPPGGGGPPGTPIMPSPGDSTNSSENMYTIMNP IGQGA
GRANFPLGPGPEGPMAAMSAMEPHHVNGSLGSGDMDGLPKSSPGAVAGLSNAPGTPRDDGEMAAAGTFLHPFPSE
SYSPGMTMSV

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FIGURE 5347

CGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACACACTGGTGCTGCACAACACGTGTGAG
GACTCGCTGCTGGCCGCACCCATCATGCTGGACCTAGCGCTGCTGACCGAGCTGTGCCAGCGCGTGAGCTTCTGC
ACTGACATGGACCCCGAGCCGCAGACCTTCCACCCCGTGCTGTCCCTGCTCAGCTTCTCTTCAAGGCGCCACTA
GTGCCGCCCCGGCAGCCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTGCATCGAGAACATCCTCAGGGCCTGC
GTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCGCCAGGGCCCAGCCTCAAGCGAGTT
GGACCCGTGGCTGCCACCTACCTATGTTGAACAAGAAAGGACCGGTACCCGCTGCCACCAATGGCTGCACCGGT
GATGCCAATGGGCATCTGCAAGAGGGGCCCCCAAAGAGCCTTTCTCTCTGGGACAAAATACAAATGGCAGGAAG
GGTCCATACAGAAAAGAACGTCTCTGAGGTCTTGCCTTTTAAATAAAATGGTAAGAGTCTTTCGTGTGGGGCCT
CCCAGCTGGGCAAGCCTTGATTGGCCAGGAGTCCAGGTGCCCAGGTGTGACCTCAGCCCCCTCGCCCTGAGCAGG
GGCGCTGGGCAGAAGCCTAGGCCCCGCAGAGAGGCCCGGGGCTGCCGCCCATCACACGCTCATGGTCATCCCTGG
CGAGTACTGCGGAGAGAGGAGGGGGCAGCGCGCAGGGGCCGAGTTTCTAGCTCCGGAAGAGGCTGGGACCCGCCCC
AGGGACAATGGGGGACAGGGCAGGGCTGGGTCTTGGGCAGACATGGGGTGGGGACAGGAGGGAACGGGGGAGGGG
CGATGCATGGGAAGGCCGCCCTGGGGCGCGGGTCCCGGGTGGGGGCGGATGGGATCGGGACGGTGAAATAGGAG
CGGGAGGTGGTGGGGGTGGGGAGAGGTTGAGGAGAGG

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FIGURE 5348

MLGGTNTLVLHNTCEDSLAAPIMLDLALLTELCQRVSFCTDMDPEPQTFHPVLSLLSFLFKAPLVPPGSPVVNA
LFRQRSCIENILRACVGLPPQNHMLLEHKMERPGPSIKRVGPVAATYPMLNKKGPVPAATNGCTGDANGHLQEGP
PKEPFSLGQNTNGRKGPYRKERL

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FIGURE 5349

GACTTTGTCCCCGAGATGGATGGGGGCGGACATGGGGAGCCAGGGGATGGGACTGCCTGGTAGGTGCTGCTGCC
CACGAAGGGGGAGTAGGTGGCAGTGTGGCTCCGAGGAGATTCTGGCTTTGGAGTTCTGGTCTCTGCCTGTTTCC
CCTGCAGTGTCTCTGACCCAGACCCCTACCTACCCCCCGGAGGCCAGCTTCCCTGCCCAGCTCCACCCCTG
GCTTGTGGCTGGGCTCATGTGTAGCCTCATTGTCTCTTGTAAAGGGGGGATAGGCAGCCATGAGCCCTTGGGG
CTGCGGAGCGAGCGAGGTGAACCTATACGCGCCGCGCTCGTGGACGCCTGGCCACTTCCGCCAGGCGGGGACCCG
ATGGCCACGGTGGCTCTGGGTTGTCTGGGCTCGAACCAGGTCTCCAGACGTTGGGCCCCCTCCCTCCAGCGCGGG
AGAGGCGGGGAAGGGGGCGGGGCGGGGAGGGGCCGAGCGCTTTTCTCCGAGGTGCGCGCCCCGAGAGCCCGC
GCTGTCCGCCGCCGCTGCCTGAGTCGACTCTGCGCCGCCGCGCGGATGGAGGCGCGCCGAGTCTTCGTGCGA
GAGCCCGACGTGGTCTACGGCCCCGAGGCCATCGAGGCGCAATACGAGTACCGGACGACGCGCTCAGCCGCGA
GGGTGGCGTTCTCAAGGTGCACCCACGTCCACGCGCTTACCTTCCGGACCGCCCCGGCAGGTGCCCGGCTCGG
GGTCATGCTTGTCTGGCTGGGGCGGGAACAACGGCTCCACACTACCGCCGCGGTGCTGGCCAATCGACTGCGTTT
GTCCTGGCCACGCGCAGCGGCCGCAAGGAGGCCAACTACTACGGCTCGCTGACTCAGGCGGGCACCCTGAGCCT
GGGCTGGACGCCGAGGGCCAGGAGGTGTTCTGTAACCTTACGCGCGGTGCTGCCCATGGTGGCGCCCAACGACCT
CGTGTTCGATGGCTGGGACATCTCGTCGCTGAACCTGGCCGAGGCGATGCGGCGCGCGAAGGTGCTGGACTGGGG
GCTGCAGGAGCAACTGTGGCCGCACATGGAGGCCCTGCGGCCCGGCCCTTCTGTTTACATCCCCGAATTCATCGC
GGCCAACCAGAGCGCGCGCGCGGACAACCTCATCCCAGGCTCGCGTGCGCAGCAGCTGGAGCAGATCCGCAGGGA
CATCCGAGACTTCCGGTCTAGCGCGGGGCTGGACAAAGTCATAGTGCTGTGGACGGCGAACACGGAGCGCTTCTG
TGAGGTGATTCCAGGCCTCAACGACACAGCCGAGAACCTGCTGCGCACCATTGAGCTCGGTCTGGAGGTGTCGCC
CTCCACGCTCTTCGCCGTGGCCAGCATCCTGGAGGGCTGTGCCTTCTCAATGGGTCTCCGCAGAACACCCTGGT
GCCCCGAGCTCTTGAGCTCGCGTGGCAGCACCGGGTTTTTGTGGGCGGAGATGACTTCAAGTCAGGCCAGACCAA
AGTCAAGTCCGTGCTTGTGGACTTCCTCATTGGCTCCGGCCTCAAGACCATGTCCATCGTGAGTTACAACCACCT
GGGCAACAACGATGGGGAGAACCTATCGGCGCCATTGCAGTTCCGCTCTAAGGAGGTGTCCAAGAGCAACGTGGT
GGACGACATGGTGACAGCAACCCAGTGCTCTATACGCCCCGCGAAGAGCCTGACCACTGCGTGGTCAATCAAGTA
TGTCGGTACGTGGGTGACAGCAAGCGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACAC
ACTGGTGCTGCACAACACGTGTGAGGACTCGCTGCTGGCCGCACCCATCATGCTGGACCTAGCGCTGCTGACCGA
GCTGTGCCAGCGCGTGAGCTTCTGCACTGACATGGACCCCGAGCCGAGACCTTCCACCCCGTGTGTCCCTGCT
CAGCTTCTCTTCAAGCGCCACTAGTGCCGCCCGGAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTG
CATCGAGAACATCCTCAGGGCCTGCGTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCG
CCCAGGGCCAGCCTCAAGCGAGTTGGACCCGTGGCTGCCACCTACCCTATGTTGAACAAGAAAGGACCGGTACC
CGCTGCCACCAATGGCTGCACCGGTGATGCCAATGGGCATCTGCAAGAGGAGCCCCCAATGCCACCACCTGAGG
CCCCGGTCACACAGTTTCTCGGCTCTTCTCCCGCTGCCCCCACGACCCTACCTTGAAGGCCCCACAAATAA
AGGCGCTGCCACTCAGCCCTCCTTCCACCTGGGGTTCTTGGGGCCTGTGACCTGA

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FIGURE 5350

GGGTGAGGAGGAAGAGGAGGAGGAAGAGGAGGAAGAGGATGACCTGAGTGAGCTGCCACCGCTGGAGGAC**ATGGG**
ACAACCCCCGGCGGAGGAGGCTGAGCAGCCTGGGGCCCTGGCCCGAGAGTTCCTTGCTGCCATGGAGCCCCGAGCC
CGCCCCAGCCCCGGCCCCAGAAGAGTGCTGGACATTCTGGGGAACGGGCTGTTGAGGAAGAAGACGCTGGTCCC
AGGGCCGCCAGGTTTCGAGCCGCCCCGGTCAAGGGCCAGGTGGTCACCGTACATCTGCAGACGTCGCTGGAGAATGG
CACACGGGTGCAGGAGGAGCCGGAGCTGGTGTTCACTCTGGGTGACTGTGACGTATCCAGGCCCTGGATCTCAG
TGTCCCACTCATGGACGTGGGGGAGACGGCCATGGTCAGTCTGACTCCAAGTACTGCTACGGCCCCCAAGGCAG
CAGGAGCCCATAACATCCCCCGCACGCGGCCCTGTGCCTGGAGGTGACCCTGAAGACGGCTGTGGACGGGCCTGA
CCTGGAGATGCTCACGGGGCAGGAGCGCGTGGCCCTGGCCAACCGGAAGCGGGAGTGCGGCAACGCCCACTACCA
GCGGGCGGACTTCGTCTGGCCGCCAACTCCTACGACCTCGCCATCAAGGCTATCACCTCCAGCGCCAAAGTGGA
CATGACGTTTCGAGGAGGAGGCACAGCTCCTGCAGTTGAAGGTGAAGTGTCTGAACAACCTGGCGGCCTCGCAGCT
GAAGCTCGACCACTACCGCGCAGCCCTGCGCTCCTGCAGCCTTGCTGCTGGAGCACCAGCCAGACAACATCAAGGC
TCTCTTCCGCAAGGGCAAGGTGCTGGCCCAGCAGGGGGAGTACAGTGAGGCCATCCCCATCCTGAGGGCAGCCCT
GAAGCTGGAACCTTCCAACAAGACGATCCACGCAGAGCTCTCAAAGCTGGTGAAGAAGCATGCGGCGCAGCGGAG
CACGGAGACCGCCTTGTAACCGGAAAATGCTGGGCAACCCCAGCCGGCTGCCTGCTAAGTGCCCTGGCAAGGGTGC
CTGGTCCATCCCATGGAAGTGGCTGTTTGGGGCGACTGCTGTTGCCTTGGGGGGTGTGGCACTCTCTGTGGTCAT
CGCTGCCAGGAAC**TGA**CCACCTAGGTGGCTGCCACCCCCTCTGCACACCATGGACCCTGCCCTGCGCTCCCCAAC
TCCCCCAGGCTCCCTGTCCACTGCCCTCCCTGGTCTGGCCCCCTCCTCCGGGTAGGGGAGCAAGGATTGGGGGT
CGTGACCCCAGCCAGCAGGAGGGACTGAGGCCCTCTAGGAGGAAAGCCCAGAGGGAGGGGGCCCTCATTCTCTC
AGACCCAGTTTTCCCCCACCTCCTTACCCCGCTGGGCTAGGTCTCCGCCAGGGCTGGCCTCAGTTTCTCTCTCAA
CAGGCCTGGGGGCAGCCCTTCCCCTGCCTAGTCCCCGCCTGAGTGCCAGCCCCCACCCCGCCTGCCGCCCCCTG
TCCAGGTTCCCTCCCCGCCACAGTGAAATAAAGCATCCACCTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5351

MGQPPAEEAEQPGALAREFLAAMEPEPAPAPAPEEWLDILGNGLLRKKTLVPGPPGSSRPVKGQVVTVHLQTSLE
NGTRVQEEPELVFTLGDCDVIQALDLSVPLMDVGETAMVTADSKYCYGPQGSRSPIPPHAALCLEVTLKTAVDG
PDLEMLTGQERVALANRKRECGNAHYQRADFVLAANSYDLAIKAITSSAKVDMTFEEEAQLQLKVKCLNNLAAS
QLKLDHYRAALRSCSLVLEHQPDNIKALFRKGKVLAAQQGEYSEAIPILRAALKLEPSNKTIHAELSKLVKKHAAQ
RSTETALYRKMLGNPSRLPAKCPGKGAWSSIPWKWLFGATAVALGGVALSVVIAARN

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FIGURE 5352

CTTGGCGCAGGCTGGAAGAGGAGCTGGTGAGAAGACAGCGAAATGGCGCCTCCGGCCCCCGGCCCGGCCTCCGGC
GGCTCCGGGGAGGTAGACGAGCTGTTTCGACGTAAAGAACGCCTTCTACATCGGCAGCTACCAGCAGTGCATAAAC
GAGGCGCAGCGGGTGAAGCTATCAAGCCCAGAGAGAGACGTGGAGAGGGACGTCTTCCTGTATAGAGCGTACCTG
GCGCAGAGGAAGTTTCGGTGTGGTCCTGGATGAGATCAAGCCCTCCTCGGCCCCCTGAGCTCCAGGCCGTGCGCATG
TTTGCTGACTACCTCGCCCCACGAGAGTCGGAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATGAGCAGGAGC
GTGGACGTGACCAACATCACCTTCCTGCTCATGGCCGCCTCCATCTATCTCCACGACCAGAACCCGGATGCCGCC
CTGCGTGCCTGACACCAGGGGGACAGCCTGGAGTGCACAGCCATGACAGTGCAGATCCTGCTGAAGCTGGACCGC
CTGGACCTCGCCCCGAAGGAGCTGAAGAGAATGCAGGACCTGGACGAGGATGCCACCCTCACCCAGCTCGCCACT
GCCTGGGTCAGCCTGGCCACGGGTGGTGAGAAGCTGCAGGATGCCTACTACATCTTCCAGGAGATGGCTGACAAG
TGCTCGCCCCACCCTGCTGCTGCTCAATGGGCAGGCGCCTGCCACATGGCCCAGGGCCGCTGGGAGGCCGCTGAG
GGCCTGCTGCAGGAGGCGCTAGACAAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCCTGTCCCAG
CACCTGGGCAAGCCCCCTGAGGTGACAAACCGATACCTGTCCCAGCTGAAGGATGCCACAGGTCCCATCCCTTC
ATCAAGGAGTACCAGGCCAAGGAGAACGACTTTGACAGGCTGGTGCTACAGTACGCTCCCAGCGCCTGAGGCTGG
CCCAGAGCTGTCAGGACCATGAAGCCAGGACAGAGGCCAGGAGCCAGCCCTGCAGCCCTCCCCACCCGGCATCCA
CCTGCATCCCCCTCTGGGGGCAGGAGCCCACCCCCAGCACCCCCATCTGTTAATAAATATCTCAACTCCAAAAAA
AAAAA

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FIGURE 5353

MAPPAPGPASGGSGEVDELFDVKNAFYIGSYQQCINEAQRVKLSSPERDVERDVFLYRAYLAQRKFGVVLDEIKP
SSAPELQAVRMFADYLAHESRRDSIVAELDREMSRSVDVTNITFLLMAASIYLDQNPDAALRALHQGDSLECTA
MTVQIILLKLDRLDLARKELKRMQDLDEDATLTQLATAWVSLATGGEKLQDAYYIFQEMADKCSPTLLLLNGQAAC
HMAQGRWEAAEGLLQEALDKDSGYPETLVNLIVLSQHLGKPPQVETNRYLSQLKDAHRSHPFKEYQAKENDFDRL
VLQYAPSA

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FIGURE 5354

GACATGTCTGCTAGCCAAGGAGCACCACGAGTGGCCAGCAGCCACCAGAGCTGGGAGAGAGGCCTGGGACGGCCT
TGCCCTCCAGCCTCCAGCTGGAGCCAGCCCTGCCGCCACCTTGACTTCAGACTTACGGCCTCCAGAGCTGTGAGG
AACGAATCCCTGTTGTCTTAAGTGCCCGGGCTGTGGTGCTTTGCCACAGCAGCTCCAGGACATTGAGACAGGTG
ACCTCCCAGGGCCACTGTTTCTCCACCCTGCACTTACTTACCAGCTGGAGTGAAGGCAGGGAACCCCTGGGTCC
CCCAGGAGCAGCAGCTGCTGTGAGCATCACAGAAAAGCAGCCCCGGAGAGCAGGCGGTCCAGGCAGGGGCTTGTG
GTCCGTTTCATCTGGCTGCACAGCCGCGACCTCATTGGCAGGACGCCCCGGGGACAAGGAGCATCCATTAGTAATT
GGTTTTGGTTTTGATTTTGTTTTCTTGAGATACGGTCTTGCTCTGTCTCAGCCTGGCATAAGTGGCACAATC
TTGGCTTACTGCAGCCTTGATCTCCAGGCTCAAGTGATCATCCACCTCAGCCTCCCGAATAGCTGGGACTACA
GGCAGCATCACCATGCCTGGCTAATTTGTATATTTTTTAGAGATGGGGTTTTGCCTGGCCGGGCGCAGTGGCTC
ACACCTGTAATCCCAAAGCGCTGGGGTTACAGGTGTGAGCCACAGTACCCGGCCCCATTGGTAATTGTAACACCT
TAGGATGACAACATTACAGTACCAACGCTACGACAAGTGGCAGTGTATATACACCCTTGTGTGCTGGAGCCTCAG
GAAGCTTTGTAAGATGGTCTTGGGAGCTCCTTGCTCCTCCCTGCATGATCCCTGTAACATGGTCCCTCAGCACG
GGGAAACAGACTCAGACCTGAAGTCACTTGCTGTGGACCTGGCACTGTGGCGAGCCCTCAGTGGAGCCTGGTT
GGTATCAGACATGCCATGCCCTCAGTGACACCTCAGACACGGGCCCTGGGCAGACAGCCCCAGATGCGCGTGGA
TGCTTACGGGGTCACAGAGCCACGTTTGAACCCAGAAGAACCAGCTTTGGTCTAGGGTGGCCCCCTCACCTGC
CTTCTCTTTTAGCTGCTCAATAGCCATGGGGAATGGAGGGTCTGGGTCCAGTTAGGGACATGGAGGCATGGGTG
ACCTGTGCCCTCGGAGCTGAGCCGGTCTCAGCCTTGCTGGGCTCAAGCCTGGCCCTGGCCCGCAGCACACTGG
CCATCTTCAGGGTGCAGCCAGCACCTGGGCTCTCAGGGACTGAGGGCAGCTGCCCTGGCAGTGGGGGTGCCCCA
GGGCTCCCATCCTTCTGCACGGCCCCCTCGGCACCCAGGCCGACCTCCTGCTAGAAGACGTGGCCTTGAAGCCCAC
AGGGTTGATGGGTTATGGTCAGGAGTCCAGCTGGGCCCCACCAGCCTCCTCAGGAAGGCGGGTGGAGTTGGTGTG
AGACTGACGGTGCCTCCTCATGTCCCCTTGGAGCGCCCCACCCACATCTCCCAGCCTCGGGTCTTGCCTGGCC
CAGCATGAGAGGTGCTTCATAGGAACGGAGGGAGGACATGTGGGACAGCTCGATGCTCGGCCTGCTGCTGCTCT
GCACCCCCAGGGCCTGGCTCACCTCTCTGGACCTGTCTGCTTCCAAGGAAGGGGACCCCTCTGAGGTCCACAGA
GGCCACCCAGCTGTGGGTCTGTAGCATCTCTGTCTTGAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATG
AGCAGGAGCGTGGACGTGACCAACACCACCTTCTGCTCATGGCCGCTCCATCTATCTCCAGCAGCAGAACCCG
GATGCCGCCCCGCTGCGTGCCTGCACCAGGGGGACAGCCTGGAGTGGTGGTGGCCTCCCTGCTCTGGGGCCAGCCC
AGGGAGGCAAGTGCCCCCTGCCACATCTCCAGGCTGCGCACGGCCCTCGCTGGCTGTGCTCATGGGAGCAGAGAAA
GGTGGTGTGAAATGAGGCCCTGGCCTGCTGTCCAGGCTCCAGCTCCCCTGCCAGTGTGGGAGGCACTCCCATC
TGCGCACCAAGGCTGCAGATCCAAGGACACGGTGCCAGGCTGCAACCCCTCTGTTCCCAAGGGCAGAGCAGAAAGC
GGCTTTGTCTCTGCTCGGTTTTCTGTGTCCCCACCCCCACGAAGCCTTCTGTGTCTCGGCCCTGGGCCAGTCTC
TCAGGCCTCCCCGGGCCCCCATACCGGCCCTCCTCCAGGGCCCTCTGGGGTTGGGGTGTGAAGCCCTGCAAGG
TTGGTGCCCCCTCCACCCTAGGATGTGACTCCGGGCCATGTCCAGGGCACTGGTCACAGAAAGTGTGTGAGTTC
TTCCCCGTGAGCTGTCCCTGCAGTGCCTGCCTTCCACTGTGAGTTGCAAGCTGGGCATTTTCATGGTGCCTGTGGA
TCTGCTCCCATCCCACCTCCATCCACAGAGGGCTTAGAATTGCAGGGCGAGCCAGGCATGGTGACATGCACCTAT
GTTTCCAGCTACTTGGGAGGCGGAAGCAGGAGTATCCCTTGAGTCTGGGAGGTGGAGGCTGCAGTGAGCCGTGAT
GGTGCCACTGCACTCCAGCCTGGGTGGCAGAGCCAGACCCTGACTCACACAC

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FIGURE 5355

GCAAAACATTTCCCTGCTGGGGGCGGCGACCACCGTGAGCGTCCCGGAAGGGGCGGCAAAGACGCCTCCGTCGCG
CACGAGGTGGCCTCGTTGGCTTTACCTTGGTTCGCGGTCGTCCTTGTTATCGTGAGCGTCCGCGAGTCTCTGGG
AGGCCAAGCCTAGGGGCGCCACAGCGCCTGCGCGCGTACGGCGGCGCGAAGGGGCTAGAGGCGGCTCCCTGGGTG
ACAACGCGCGCCCCACCTTTCCCCACGTGGCCGCGAAGACCGGCTCAGGAGCATCTATCGGCTGCACGCCAACA
TCAACACAGGCGAAGATCGTCTCCAAGCGCATTGCCCAGGAGACCTTTGATGCAGCTGTGCGCGAGAACATCGAG
GAGTTTGCATGGGGCCAGAGGAGGCAGTGAAAAGAGGCCGTGGAGCAGTTTGAATCGCAAGGGGTTGATCTGAGC
AACATTGTAAAGACGGCACCTAAAAGTCTCTGCAGACGGATCCCAGGAGCCACACATGACATCCTGCAGATGCTC
AGTGACCTCCAGGAGTCTGTGGCCAGCTCTCGCCCCAGGAGGTGTGAGCATACCTCACCCGCTTCTGCGACCAG
TGCAAACAGGACAAGGCCTGCCGCTTCCTCGCGGCCAGAAAGGGGGCCTACCCCATCATCTTCACTGCCTGGAAG
CTGGCCACTGCAGGTGACCAGGGCCTTCTGCTCCAGTCCCTCAATGCCCTGTGCGGTGCTGACTGATGGACAGCCA
GACCTCCTGGATGCCCAGGGCCTGCAGCTCCTAGTGGCCACGCTGACCCAGAATGCTGATGAGGCTGACCTGACC
TGCTCTGGGATCCGCTGTGTGCGTCACGCTTGCTGAAACATGAACAGAATCGGCAAGACCTGGTGAAAGCTGGC
GTGCTGCCTCTGCTGACTGGTGCCATCACCATCATGGCCACCACACTGACGTGGTCAGGGAAGCCTGCTGGGCC
CTGCGTGTGATGACCTTCGATGACGACATCCGTGTGCCCTTTGGCCATGCCACAACCATGCCAAGATGATTGTG
CAGGAGAACAAGGCTTGAAGGTGCTCATCGAAGCCACCAAGCGTTTCTGGATAACCCTGGCATCCTGAGCGAG
CTCTGTGGAACCTGTCCCGCTGGCCATTGCAACGAGTTCTGCCAGGAGGTGTCGACCTCGGGGGCCTGAGC
ATTCTGGTGTCCCTGCTAGCCGACTGCAATGACCACCAGATGAGGGACCAGAGCGGCGTTGAGGAGCTCGTGAAG
CAAGTGCTGAGCACCTGCGAGCCATCGCAGGCAACGACGACGTGAAAGATGCTATTGTCCGTGCTGGTGGGACG
GAGTCCATCGTGGCTGCTATGACCCAGCATCTGACCAGCCCCAGGTGTGTGAGCAGAGCTGCGCGGCCCTGTGC
TTCTTGGCCCTGCGTAAGCCCGACAACAGCCGCATCATCGTGAGGGTGGCGGGGCTGTGGCAGCACTGCAGGCC
ATGAAGGCACACCCGCGAGAAGGCCGGCGTGCAGAAACAGGCTTGATGCTGATCCGAAACCTGGTGGCCACGGC
CAGGCCTTCTCGAAGCCCATCCTGGACCTGGGGGCTGAGGCACTCATGATGAGGCCCGATCTGCCACCCGTGAC
TGTGAGGACGTGGCCAAGGCCGCCCTGCGGGACCTGGGTGTGATGTCGAGCTCCGAGAGCTGTGGACAGGCCAG
AGGGGCAACCTGGCGCCATGACCCCCAGGCCAGTCTGGGCCGTGACTCTGGGTGAGTCGTGTGACTCAGGAATGG
GGGTAGATCCATGTCTCCACTGTCCCCATTAGTTCTGTCCCTTACAATGAGAAGTGTCTTCTGGCAGGCC
TAGGTAAAGGGTCGGGGGAGGGGGGAGCCTTGTAGGGAGGCCTCTACACAGAAGAAAGCAGCCCCCATGTCCCAG
CCACTTCTGGGTCCCAGCCAGCAGCACGGATGTTACTGTCTGCTCCTTCCCCAGCCCCACGCCCTACCAGAGG
GGGCAAAGGGCACGTCCCATCACTCACTGCCCTGTCTGAAATGTGGCAGCCACTGTGGGCCAGGCTCAGGGCAGG
GCAGGCGATTCCAGTGGGGTTGGGCCCCCTGGCGCCTGCTGCTTACTGCAGTTTCATGCAGGCCCTCTGCTCCTTG
TCTTTCTTACCTGTAAATGGGTCTCAGATGCTCCGCCCTGCTTGGCCCCAGCTTGTCTGTCTCTGGGTCTGGG
CCAGCCAGGATACCTGATAATAAAAGATCATTGGGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5356

MVSKRIAQETFDAAVRENIEEFAMGPPEAVKEAVEQFESQGVDSLNI VKTAPKVSADGSQEPTHDILQMLSDLQE
SVASSRPQEV SAYLTRFC DQCKQDKACRFLAAQKGAYPIIFTAWKLATAGDQGLLLQSLNALS VLTGQPDLLDA
QGLQLLVATLTQNADEADLTCSGIRCVRHACLKHEQNRQDLVKAGVLP LLTGAI THHGHHTDVVREACWALRVMT
FDDDIRVPFPGHAHNHAKMIVQENKGLKVLI EATKAFLDNPGILSEL CGTLSRLAIRNEFCQEVVDLGGLSILVSL
LADCNDHQMRDQSGVQELVKQVLSTLR A IAGNDDVKDAIVRAGGTESIVAAMTQH LTSPQVCEQSCAALCFLALR
KPDNSRIIVEGGGAVAALQAMKAHPQKAGVQKQACMLIRNLVAHGQAFSKP ILDLGAEALIMQARS AHRDCEDVA
KAALRDLGCHVELRELWTGQRGNLAP

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FIGURE 5357

GGCCGGTGGGTGAGTGCACCGGTTCTCGCACGCGTCATGGCGGTCCTCGGAGTACAGCTGGTGGTGACCCTGCT
CACTGCCACCCTCATGCACAGGCTGGCGCCACACTGCTCCTTCGCGCGCTGGCTGCTCTGTAAACGGCAGTTTGT
CCGATACAAGCACCCGCTCTGAGGAGGAGCTTCGGGCCCTGGCGGGGAAGCCGAGGCCCAGAGGCAGGAAAGAGCG
GTGGGCCAATGGCCTTAGTGAGGAGAAGCCACTGTCTGTGCCCGAGATGCCCCGTTCCAGCTGGAGACCTGCCC
CCTCACGACCGTGGATGCCCTGGTCCTGCGCTTCTTCCTGGAGTACCAGTGGTTTGTGGACTTTGCTGTGTACTC
GGGCGGCGTGTACCTCTTCACAGAGGCCTACTACTACATGCTGGGACCAGCCAAGGAGACTAACATTGCTGTGTT
CTGGTGCCTGCTCACGGTGACCTTCTCCATCAAGATGTTCTGACAGTGACACGGCTGTACTTCAGCGCCGAGGA
GGGGGGTGAGCGCTCTGTCTGCCTCACCTTTGCCTTCTTCTGCTGCTGGCCATGCTGGTGCAAGTGGTGCG
GGAGGAGACCCTCGAGCTGGGCCTGGAGCCTGGTCTGGCCAGCATGACCCAGAACTTAGAGCCACTTCTGAAGAA
GCAGGGCTGGGACTGGGCGCTTCTGTGGCCAAGCTGGCTATCCGCGTGGGACTGGCAGTGGTGGGCTCTGTGCT
GGGTGCCTTCTCACCTTCCCAGGCCTGCGGCTGGCCCAGACCCACCGGGACGCACTGACCATGTCGGAGGACAG
ACCCATGCTGCAGTTCTCCTGCACACCAGCTTCTGTCTCCCTGTTTCATCCTGTGGCTCTGGACAAAGCCCAT
TGCACGGGACTTCTGCACACAGCCGCCGTTTGGGGAGACGCGTTTCTCCCTGCTGTCCGATTCTGCCTTCGACTC
TGGGCGCCTCTGGTTGCTGGTGGTGCTGTGCCTGCTGCGGCTGGCGGTGACCCGGCCCCACCTGCAGGCCTACCT
GTGCCTGGCCAAGGCCCGGGTGGAGCAGCTGCGAAGGGAGGCTGGCCGCATCGAAGCCCGTGAAATCCAGCAGAG
GGTGGTCCGAGTCTACTGCTATGTGACCGTGGTGAGCTTGAGTACCTGACGCCGCTCATCCTCACCCCTCAACTG
CACACTTCTGCTCAAGACGCTGGGAGGCTATTCTGGGGCCTGGGCCCAGCTCCTCTACTATCCCCCGACCCATC
CTCAGCCAGCGCTGCCCCCATCGGCTCTGGGGAGGACGAAGTCCAGCAGACTGCAGCGCGGATTGCCGGGGCTCT
GGGTGGCCTGCTTACTCCCTCTTCTCCGTGGCGTCTGGCCTACCTCATCTGGTGGACGGCTGCCTGCCAGCT
GCTCGCCAGCCTTTTTCGGCCTCTACTTCCACCAGCACTTGGCAGGCTCCTAGCTGCCTGCAGACCCCTCCTGGGGC
CCTGAGGTCTGTTCTGGGGCAGCGGGACACTAGCCTGCCCCCTCTGTTTTCGCCCCCGTGTCCCCAGCTGCAAG
GTGGGGCCGGACTCCCCGGCGTTCCCTTACCACAGTGCCTGACCCGCGGGCCCCCTTGGACGCCGAGTTTCTGC
CTCAGAACTGTCTCTCCTGGGCCCAGCAGCATGAGGGTCCCGAGGCCATTGTCTCCGAAGCGTATGTGCCAGGTT
TGAGTGGCAAGGGTGATGCTGGCTGCTCTTCTGAACAAATAAAGGAGCATGCCGATTTTTT

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FIGURE 5358

CCGGACGCCGCACGGCTCCTGTTCCGGTGTCAGAGGGCCCGCCCTCCCGCTCCTCAGTCTTTGCGGACAAGAAA
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCTTTTCCTTGAGAGACG
AGTTGGGGGAGTCCCTCCACGCATTACCCACTCGGGCCGCAAAAACCTCCCTTCTTTAGCCCTCTGCCCCCGCCCTT
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG
GGTCCGGTCTCCAGTTTGCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTTGA
GAGAACTGGGCTTTTCGGCGCGGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCCATGGAGCTTACCCAGCCTGC
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCTGAAGACCCCGGAGAGGAGGCTGC
AGATGGCTCAGACACTGTGGTCCCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG
TGTTTCTCTCCACAGGGCAGCTCCCTGAAGCACTCCACCCTCTCACCAACCGGCAGCGAGGGAACGAGGTGTC
AGCTCTGCCGGCCACCCTAGACTGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTCACCCCTCATCTG
GGCCTCCGCCTTTGGAGAGATTGAGACCGTTCGCTTCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAA
AGAGCGAGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGA
CGTGGACATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACCACGTGAAATG
CGTTGAGGCCTTGCTGGCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGC
CGTGGCCCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGT
GCCCGCTGACCCTGAGTGAAGGCGCCCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGG
GGAAACCAGAACTGACTTCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCCTCCCAAGAGGAACCAATA
AACCTTCTGTGCAGAATGA

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FIGURE 5359

MELTQPAEDLIQTQQTASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQGSSLKHSTTLTNR
QRGNEVSALPATLDCDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIV
GLLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQVIENHILK
LFQSNLVPADPE

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FIGURE 5360

CCGGACGCCGCACGGCTCCTGTTCCGGTGTCAGAGGGCCCGCCCTCCCGCTCCTCAGTCTTTGCGGACAAGAAA
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCCCTTTTCCTTGAGAGACG
AGTTGGGGGAGTCCTCCACGCA⁺TACCCACTCGGGCCGCAAAA⁺ACTCCCTTCTTTAGCCCTCTGCCCCCGCCCTT
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG
GGTCCGGTCTCCAGTTTGCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTGA
GAGAACTGGGCTTTTCGGCGCGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCC⁺ATGGAGCTTACCCAGCCTGC
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCTGAAGACCCCGGAGAGGAGGCTGC
AGATGGCTCAGACACTGTGGTCCCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG
TGTTTCTCTCCACAGGCAGGCAGCTCCCTGAAGCACTCCACCCTCTCACCACCGGCAGCGAGGGAACGAGGT
GTCAGCTCTGCCGGCCACCCTAGACTCCCTGTCCATCCACCAGCTCGCAGCACAGGGGGAGCTGGACCAGCTGAA
GGAGCATTTCGCGAAAGGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTGGGCCTC
CGCCTTTGGAGAGATTGAGACCGTTCGCTTCTTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAAAGAGCG
AGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGACGTGGA
CATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACCACGTGAAATGCGTTGA
GGCCTTGCTGGCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGCCGTGGC
CCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGTGCCCGC
TGACCCTGAGTGAAGGCCGCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGGGGAAAC
CCAGAACTGACTTCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATAAACCTT
CTGTGCAGAATGA

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FIGURE 5361

MELTQPAEDLIQTQQTASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQAGSSSLKHSTTLTN
RQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAFGEIETVRFLEWGADP
HILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYT
PMDLAVALGYRKVQQVIENHILKLFQSNLVPADPE

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FIGURE 5363

MQEPRRVTHCLGKRGVKTPLQPGSAFLPRVRRQSFTARSDSYTTVRDFLAVPRTISSASATLIMAVAVSHFRPG
PEVWDTASMAASKVKQDMPPPGGYGPIDYKRNLPRRGLSGYSMLAIGIGTLYGHWSIMKWNRRRRRLQIEDFEA
RIALLPLLQAETDRRTLQMLRENLEEEAIIMKDVPDWKVGESVFHTTRWVPPLIGELYGLRTTEEALHASHGFMW
YT

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FIGURE 5364

GCCCCTCCCCGCCCCGCCTCCCGGCGCGGGTGGCCGAGGCGTAGCGCTGCGACCCCCGCACCCCTGCTAACATGG
CGCTGCGAGTGGTGCGGAGCGTGCGGGCTCTGCTCTGCACCCCTGCGCGCGGTCCCGTCACCCGCCGCGCCCTGCC
CGCCGAGGCCCTGGCAGCTGGGGGTGGGCGCCGTCCGTACGCTGCGCACTGGACCCGCTCTGCTCTCGGTGCGTA
AATTCACAGAGAAACACGAATGGGTAACAACAGAAAATGGCATTGGAACAGTGGGAATCAGCAATTTTGACAGG
AAGCGTTGGGAGATGTTGTTTACTGTAGTCTGCCTGAAGTTGGGACAAAATTGAACAAACAAGATGAGTTTGGTG
CTTTGGAAAGTGTGAAAGCTGCTAGTGAACCTCTATTCTCCTTTATCAGGAGAAAGTAACTGAAATTAATGAAGCTC
TTGCAGAAAATCCAGGACTCGTAAACAAATCTTGTTGTGAAGATGGTTGGCTGATCAAGATGACACTGAGTAACC
CTTCAGAACTAGATGAACTTATGAGTGAAGAAGCATATGAGAAATACATAAAATCTATTGAGGAGTGAAAAAATGGA
ACTCCTAAATAAACTAGTATGAAATAACGCAAGCCAGCAGAGTTGCTTAAATTAGTGGTGGATAGAAGACTTAG
AATAGAACTTTTAAATATTACCGATGGGGGAAAAAACTACTGTTAACTGCTAATGAAAGAAAATGCCTTTAA
CTTTCTAATGATTATAGATAAAATATAATATGCATCTTTTTTACAATATCCTATGATTTTTTAGACTAGGCTCTAGT
GTTTCAGAATTCATGAAATTATCCATGGTAAAACTAGTTATAAAAATTACATAATTCAAAGATAACATTGTTATT
CTTAAGCCTTATATAATATTGTAACCTGCATGTATCCATACCTGGATTGTTGGATGAAATACTTAATGATCTTTCC
ATTGGAATAACTGGAAGTGAAGAGGTTTTTGTGCTTGACAGTGTGAGATGAGGAACACCACTATTTTAAATTT
GCGATACACTGCATTTGCTGGTGCTATTTTTTATACAGTGAAGCAACAGCTTTGCAGCAAAATAATAAAATACTTC
TTTGTT

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FIGURE 5365

MALRVVRSVRALLCTLRAVPSPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTKHEWVTENGIGTVGISNFA
QEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLVNKSCCEDGWLIKMTLS
NPSELDELMSEEAYEKYIKSIEE

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FIGURE 5366

TACTGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTAATGTGGTGGATGCTGGCTCGGGAAGTTCTG
CGCATGCGTGGCACCATTTCCTCGTGAACACCCATGGGAGGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAA
GAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGGAGGAATTCAGGGTGAATGGACTGCT
CCCGCTCCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTGCAGGTGCCCTCTGTGCCT
ATTCAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGAAGACTGGTCTGCAGCTCCCACTGCTCAG
GCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTG CATAGGCTCTTAAGCAGCATGGAAAA
ATGGTTGATGGAAAAATAACATCAGTTTCT

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FIGURE 5367

GCTTTTCCATGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACTTAAAGGGAACTTT
CACAATGTCCGGAGCCCTTGATGTCCTGCAAATTAAGGAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCA
CTTAGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCAT
AAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACCTGCTGATGT
CAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAAT
TGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCTGGGAGCCACGGCTTCTTGTTGGT
TACTGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAA
CACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGAT
GTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCC
TGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAA
GGAGGAATTTAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTC
TGAAGGTGTGCAGGTGCCCTCTGTGCCTATTAGCAATTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGA
AGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCT
TGCATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 5368

MSGALDVLQIKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFWEPRLLVVTDPRADHQPLTEASYVNLPTIALCNT
DSPLCYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDP EEIEKEEQAAAEKAVTKE
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQPMEDWSAAPT AQATEWVGATTDWS

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FIGURE 5369

CTTTCGGTGATGACAACCTTCCCACAAGAGGACATGCCTCTCACAAAGGATCTCCTTCATCCCTCTCCAGAAGA
GAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCTACTTCATGGATGTGAAATGCCCAGGATG
CTATAAAGTCACCACGGTCTTTAGTCATGCACAAATGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCCTCTGCCA
GCCTACAGGAGGAAAAAGCAAGGCTTACAGAAGGATGTTTCCTTCAGGAGGAAGCAGCACTAAAAGCACTCTGAATC
AAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGAT

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FIGURE 5370

GTCGTCACGCGTCCCGCGCCTCCTCGCGCCTGCGCCGTGGTTGGAAGGTCGTCCCTGTGACCGGCTTGGCGGTTG
GAGCGGCTGTGCGCATGTTGTCGGTAGCATCCCGCTCAGGCCCGTTTCGCGCCCGTCCTGTGCGCCACGTCCCGCG
GGGTGGCGGGCGCGCTGCGGCCCTTGGTGCAGGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTTGGACCTGA
AGCGGCCCTTCCTCAGCCGGGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCTTTGGTCGCCTCCGTGGGCCTCA
ATGTCCCTGCTTCTGTTTGTATTCCACACAGACATCAAGGTGCCTGACTTCTCTGAATACCGCCGCCTTGAAG
TTTTAGATAGTACGAAGTCTTCAAGAGAAAGCAGCGAGGCTAGGAAAGGTTTCTCCTATTTGGTAAGTGGAGTAA
CTACTGTGGGTGTCGCATATGCTGCCAAGAATGCCGTACCCAGTTCGTTTCCAGCATGAGTGCTTCTGCTGATG
TGTTGGCCCTGGCGAAAAATCGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCTTTCAAATGGAGAG
GCAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAGGAAGCTGCAGTTGAATTATCACAGTTGA
GGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTTGCACTCATCTTG
GCTGTGTACCCATTGCAAATGCAGGAGATTTTGGTGGTTATTACTGCCCTTGCCATGGGTCACACTATGATGCAT
CTGGCAGGATCAGATTGGGTCCTGCTCCTCTCAACCTTGAAGTCCCCACGTATGAGTTCACCACTGACGATATGG
TGATTGTTGGTTAAGAGACTTGACTCAAGTCATAGGCTTCTTTCAGTCTTTATGTCACCTCAGGAGACTTATTT
GAGAGGAAGCCTTCTGTACTTGAAGTTGATTTGAAATATGTAAGAATTGATGATGATTTGCAAACATTAATGTG
AAATAAATTGAATTTAATGTTGAATACTTTCAGGCATTCACTTAATAAAGACACTGTTAAGCACTGTTATGCTCA
GTCATACACGCGAAAGGTACAATGTCTTTTAGCTAATTCTAATTAAAAATTACAGACTGGTGTACAAGATACTTG
TG

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FIGURE 5371

ACTGGAGTAACTACTGTGGGTGTCGCATATGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATGAGTGCT
TCTGCTGATGTGTTGGCCCTGGCGAGAGGCCAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAG
GAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGTT
ATCCTGATAGGTGTTTGCACCTCATCTTGGCTGTGTACCCATTGCAAATGCAGGAGATTTTGGTGGTTATTACTGC
CCTTGCCATGGGTCACACTATGATGCATCTGGCAGGATCAGATTGGGTCCTGCTCCTCTCAACCTTGAAGTCCCC
ACGTATGAGTTCACCAGTGACGATATGGTGATTGTTGGTTAAGAGACTTGGACTCAAGTCATAGGCTTCTTTCAG
TCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACTTGAAGTTGATTTGAAATATGTAAGAAT
TGATGATGTATTTGCAAACATTAATGTGAAATAAATTG

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FIGURE 5372

GGGCCTGCGGGAGCGCGGCCTTGCGGTTCCAGGACTCTTCTCCGGGCGCCTCGTCTCCTTACGCCACCCGCAAC
CCAAGCCAGGGCCCCGGTGACAGCGGCGGGGTGGGCCAGGACCGGGAGGGGGTGCCAGCAGCGACCCCCGGCT
CCCCCTAAGGCCGGGCGCAGCTCGGAGCCAGGAGCTGGCCCGGCGCGTGGCTTCCCGGAAGGCCCGGCGCAGCCG
GAAGGTGGGACGGAGGGCGGGGCCAGCGCCGGGGCCGCCACCAAGGCCTGCGCGACCCCTCCGCGGGGCTGGGGAG
CTGGGCGGGGAGCCCCGGGGCCTGCCAGGCCCGGGCTGCAGCCGCGTCTGATCGCCGAGCGCGCCGCTAGACCTC
CGCTCCCCCAGCCACCGTCTGGATGCTGTCTGTCTATACAGGCGCTTGGAGCTGCTGAGCTTTCCTGAAAAGGGGG
ACCCCTTCCTTAAACTCTAGGAACTAGAGTGGCATTGTGATGGAAATACTCTTATGCTCATTGAAACTGTCCCTC
TGAACCTTCTCCCTCGAAGGCCCGCCACGATGACTATCATGGTGGAGGACATCATGAAGCTGCTGTGCTCCCTTTC
TGGGGAGAGGAAGATGAAGGCGGTGTCAAGCACTCTGGGAAGGGTGCCCTGGTCACAGGGGCCATGGCCTTCGT
CGGGGGTTTGGTGGGCGGCCACCGGGACTCGCCGTTGGGGGGGCTGTGCGGGGGCTGTTAGGTGCCTGGATGAC
AAGTGGACAGTTTAAAGCCGTTCTCAGATCCTAATGGAGCTGCCCCCTGCCGAGCAACAGAGGCTCTTTAACGA
AGCCGCAGCCATCATCAGGCACCTGGAGTGGACGGACGCCGTGCAGCTGACCGCGCTGGTCATGGGCAGCGAGGC
CCTGCAGCAGCAGCTGCTGGCCATGCTGGTGAAGTACGTCACCAAGGAGCTGCGGGCCGAGATCCAGTATGATGA
CTAGGCCGACCTCCGGGGAGGTGGGGGGCCCCCTTTAATGACTCTGTGATTCTGAAGAGGTGGCTTGGGAGTTG
GGAGAAGCCAGCGGATGCCCCCTGGGGAATCTCCACATCATCAGTGTATTACTAGTAATGTCCCGCTGGAGAGG
CCACCGCTGTGCAGTGTATGTTCCAGAAATTACTGATGAAGCAGCATGTGTTGGTGGCATGTGCACTGGCCTGC
CATGACAGCCCTCTGACTGGCCCCCAGTGAAGAGTAAAGGCCTGCCTGCCGAGGCTTCGGAGGCGTCTGCTGA
GTCTCTCACCCGATGGGTCTGGGGAAGTGATCACGCTCAGCCGACGGTCTGACCACACTTCATCCTCCCCCG
GGGCCTTCTCATCTTGGGAGATGACTCCTCTTCAGAGCACCTGCTGCAGGACTGGATCCCACCCCCCTGCAGGTC
CTGGGGTCTCAGGGCCTTGGAGCAGCCCATGCTGGAATCATGTTTACCTCCTAGTGCAACCGTCCCCTACCCAGG
GACTGTGCAATGGCCCCACGGAGGGGACGGGCGGCCTGCTGAGTGAAGCCACAAATACCGAGTGGACTTGACCCC
GGCCCCACTAGGCTGCACACCTAGACTCGCCCTGCCAGGGCCTCGCTCTTCCCCTGAAAAAGTCTGGTAGTT
CTTGAGGTTTACTTCTCAAATGAAATATTTTTAGTAAAAAGTACAGGTATATCTCGGAGATATTGTGGGTTCAGT
TCCAGACCACCTCGGTAAAGCCAACATCACAAATAAGCAAGGAAGCGCATTGTTTTAGTTTCCCAGTGCATCTAA
GTCATGTTTACTGCATATTGCAGTCCACTAAATGTGCAATAGCATTATGTCTAACAAATGTACAAACCTTAATTT
AAAAATATTTACTGTTCAAATGCTGACACAGAAACGCAAAGTGAGCACATGCTGTTGGAAAAATGGTGCCAAATA
GACTTGCTGATGCCAGGCTGCTACAAACCTTCAATTTAAAAAACAACACAGTATTACAAAGCATAGTAGAAT
GAGGTATGCCTGTATTGCTCTTTCTGAAGTGGTGTGATATAAACCATCTCTAAGAAATGTTTCTACCCATAAGAT
TTCCCCAGTACAGTCAGCTCTCCGTAAGTGTGGTCTCCACATTTAGATCCAACCAGCCTTGATAGGAAATATTT
GAAAAAAGAAATTGCATTGGTACTGAACACGTACAGACCTTTTTTTCTTGCCATTATTCCCTAAACAATATGGTG
TAGCATATTTACATAGCATTATATATTGTATTGTTGTTATTATAAGAAATCTAGAGATGATTTAAATTATACAGGAAG
GTGTGCGTAGGTTACGTGCAAACGCTATGCCATTGCCATCAGGGACTTGAGCATCCTCAGATGTCGGTGTCTGA
GGGTTGAGGTTGCAGTCTTGAACCCATCCCCATGGATACTGAGGCATAGCTGTACTGTGTGTTTCACTTTGC
TTTCAGAACTACGACTTGAATGTGATCGATTACAATAAATGTTTTTCT

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FIGURE 5373

MTIMVEDIMKLLCSLSGERKMKA AVKHSGKGALVTGAMAFVGGLVGGPPGLAVGGAVGGLLGAWMTSGQFKPVPQ
ILMELPPAEQQRLFNEAAAIIRHLEWTD AVQLTALVMGSEALQQQLLAMLVNYVTKELRAEIQYDD

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FIGURE 5374

AGCAGCCGGCGCGGCCGCCAGCGCGGTGTAGGGGGCAGGCGCGGATCCCGCCACCGCCGCGCGCTCGGCCCGCCG
ACTCCCGGCGCCGCCGCCGCGCCACTGCCGTGCGCGCCGCCCTGCCGGGACTGGAGCGCGCCGTCCGCCGCGGAC
AAGACCTTGGCCTCAGGCCGGAGCAGCCCCATCATGCCGAGGGAGCGCAGGGAGCGGGATGCGAAGGAGCGGGAC
ACCATGAAGGAGGACGGCGGCGCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTG
CAGGATCCAGATGAAGAAATGGCCAAAATCGACAGGACGGCGAGGGACCAGTGTGGGAGCCAGCCTTGGGACAAT
AATGCAGTCTGTGCAGACCCCTGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTTACCCAAAC
TCAACGTGCAAGCCTCGGATTATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAG
GAAGTCTGGAAAATCATGTTAAACAAGGAAAAGACATACTTAAGGGATCAGCACTTTCTTGAGCAACACCCTCTT
CTGCAGCCAAAAATGCGAGCAATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAG
ACCTTTTACTTGGCACAAGATTTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAACTCTTTTACAG
CTTATTGGGATTTTCATCTTTATTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAGTTTGCG
TATGTGACAGATGGAGCTTGTTTCAGGAGATGAAATTCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGG
CGTTTAAGTCCCCTGACTATTGTGTCCTGGCTGAATGTATACATGCAGGTTGCATATCTAAATGACTTACATGAA
GTGCTACTGCCGAGTATCCCCAGCAAATCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCCTGGATGTT
GACTGCCTTGAATTTCTTATGGTATACTTGCTGCTTCGGCCTTGTATCATTCTCGTCATCTGAATTGATGCAA
AAGGTTTCAGGGTATCAGTGGTGCGACATAGAGAACTGTGTCAAGTGGATGGTTCCATTTGCCATGGTTATAAGG
GAGACGGGGAGCTCAAACTGAAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGA
GACAGCTTGGATTTGCTGGACAAAGCCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCTCTC
CCCAGTGGGCTCCTCACCCCGCCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGGAATGGCGTGACCACCCCAT
CCTTCTCCACCAAAGACAGTTGCGCGCCTGCTCCACGTTCTCTTCTGTCTGTTGCAGCGGAGGCGTGCCTTTGCT
TTTACAGATATCTGAATGGAAGAGTGTCTTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAAA
GTGTTTTTTTATTGAATGCTTATAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGT
GCGTGCTCCCGATGCTGCTATGGAAGGTGCTACTTGACCTAAGGGACTCCCACAACAACAAAAGCTTGAAGCTGT
GGAGGGCCACGGTGGCGTGGCTCTCCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGGAGCAGGIGGTTGCGG
GCAAGCGTTGTGCAGAGCCCATAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGTGTACAA
TGCCTTTGATGAACTGTTTTGTAAAGTGCTGCTATATCTATCCATTTTTTAAATAAAGATAATACTGTTTTTGAGAC
AAAAA

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FIGURE 5375

MPRERRERDAKERDTMKEDGGAEF SARSRKRRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNAVCADPCSLI
PTPDKEDDDRVPNSTCKPRIIAPSRGSPLPVLSWANREEVWKIMLNKEKTYLRDQHFLEQHPLLQPKMRAILLD
WLMEVCEVYKLHRETFYLAQDFFDRYMATQENVVKTLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDE
ILTMELMIMKALKWRLSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILA
ASALYHFSSSELMQKVSGYQWCDIENCVKWMVPFAMVIRETGSSKLKHFRGVADEDAHNIQTHRDSLDLLDKARA
KKAMLSEQNRASPLPSGLLTPPQSGKKQSSGPEMA

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FIGURE 5376

GTGCTACCCGGCCCGGTGCCACCCGGGTCCACAGGGATGCGAAGGAGCGGGACACCA**ATGA**AGGAGGACGGCGGC
GCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTGCAGGATCCAGATGAAGAAATG
GCCAAAATCGACAGGACGGCGAGGGACCAGTGTGGGAGCCAGCCTTGGGACAATAATGCAGTCTGTGCAGACCCC
TGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTTACCCAAACTCAACGTGCAAGCCTCGGATT
ATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAGGAAGTCTGGAAAATCATGTTA
AACAAGGAAAAGACATACTTAAGGGATCAGCACTTTCTTGAGCAACACCCCTCTTCTGCAGCCAAAAATGCGAGCA
ATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAGACCTTTTACTTGGCACAAGAT
TTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAAACTCTTTTACAGCTTATTGGGATTTCACTTTTA
TTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAAGTTTGCGTATGTGACAGATGGAGCTTGT
TCAGGAGATGAAATTCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGGCGTTTAAGTCCCCTGACTATT
GTGTCTTGCGTGAATGTATACATGCAGGTTGCATATCTAAATGACTTACATGAAGTGCTACTGCCGCAGTATCCC
CAGCAAACTCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCTTGATGTTGACTGCCTTGAATTTCTTTAT
GGTATACTTGCTGCTTCGGCCTTGTATCATTCTCGTCATCTGAATTGATGCAAAAGTTTTAGGGTATCAGTGG
TGCGACATAGAGAACTGTGTCAAGTGGATGGTTCCATTTGCCATGGTTATAAGGGAGACGGGGAGCTCAAACTG
AAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGAGACAGCTTGGATTTGCTGGAC
AAAGCCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTCCCCAGTGGGCTCCTCACCCG
CCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGGAATGGCG**TGAC**CACCCCATCCTTCTCCACCAAAGACAGTT
GCGCGCCTGCTCCACGTTCTTCTGTCTGTTGCAGCGGAGGCGTGCCTTTGCTTTTACAGATATCTGAATGGAA
GAGTGTCTTCTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAAAGTGTTTTTTATTGAATGCTTA
TAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGTGCCTGCTCCCGATGCTGCTAT
GGAAGGTGCTACTTGACCTAAGGGACTCCCACAACAACAAAAGCTTGAAGCTGTGGAGGGCCACGGTGGCGTGGC
TCTCCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGGAGCAGGTGGTTGCGGGCAAGCGTTGTGCAGAGCCCA
TAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGTGTACAATGCCTTTGATGAAGTGTGTTG
TAAGTGCTGCTATATCTATCCATTTTTTAATAAAGATAATACTGTTTTTGAGACAAAAAAA

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FIGURE 5377

MKEDGGAEFSARSRKRRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNAVCADPCSLIPTDPKEDDDRVPNS
TCKPRIIAPSRGSPVLSWANREEVWKIMLNKEKTYLRDQHFLEQHPLLQPKMRAILLDWLMEVCEVYKLHRET
FYLAQDFFDRYMATQENVVKTLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDEILTMELMIMKALKWR
LSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCLVLDVDCLEFPYGILAASALYHFSSELMQK
VSGYQWCDIENCVKWMVPFAMVIRETGSSKLKHFRGVADEDAHNIQTHRDSLDDLKARAKKAMLSEQNRASPLP
SGLLTPPQSGKKQSSGPEMA

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FIGURE 5378

TATAAAAGCTGGGCCGGCGCGGGCCGGGCCATTTCGCGACCCGGAGGTGCGCGGGCGCGGGCGAGCAGGGTCTCCG
GGTGGGCGGGCGGACGCCCCGCGCAGGCTGGAGGCCGCCGAGGCTCGCCATGCCGGGAGAACTCTAACTCCCC
ATGGAGTCGGCCGACTTCTACGAGGCGGAGCCGCGGGCCCCGATGAGCAGCCACCTGCAGAGCCCCCGCACGCG
CCCAGCAGCGCCGCTTCGGCTTTCCCCGGGGCGCGGGCCCCGCGCAGCCTCCCCGCCCCACCTGCCGCCCCGGAG
CCGCTGGGCGGCATCTGCGAGCACGAGACGTCCATCGACATCAGCGCCTACATCGACCCGGCCGCTTCAACGAC
GAGTTCCTGGCCGACCTGTTCCAGCACAGCCGGCAGCAGGAGAAGGCCAAGGCGGCCGTGGGCCCCACGGGCGGC
GGCGGCGGGCGGCGACTTTGACTACCCGGGCGCGCCCCGCGGGCCCCGGCGGGCGCCGTGATGCCGGGGGAGCGCAC
GGGCCCCCGCCCGCTACGGCTGCGCGGCCGCCGGCTACCTGGACGGCAGGCTGGAGCCCCCTGTACGAGCGCGTC
GGGGCGCCGGCGCTGCGGCCGCTGGTGATCAAGCAGGAGCCCCGCGAGGAGGATGAAGCCAAGCAGCTGGCGCTG
GCCGGCCTCTTCCCTTACCAGCCGCCGCCGCCGCCGCCCTCGCACCCGCACCCGCACCCGCCGCCGCCGCAC
CTGGCCGCCCGCACCTGCAGTTCAGATCGCGCACTGCGGCCAGACCACCATGCACCTGCAGCCCGGTACCCCC
ACGCCGCCGCCACGCCCCGTGCCAGCCCGCACCCCGCGCCCGCGCTCGGTGCCGCCGGCCTGCCGGGCCCTGGC
AGCGCGCTCAAGGGGCTGGGCGCCGCGCACCCGACCTCCGCGCGAGTGGCGGCAGCGGCGCGGGCAAGGCCAAG
AAGTCGGTGGACAAGAACAGCAACGAGTACCGGTGCGGCGCGAGCGCAACAACATCGCGGTGCGCAAGAGCCGC
GACAAGGCCAAGCAGCGCAACGTGGAGACGACAGAGAAGGTGCTGGAGCTGACCAGTGACAATGACCGCTGCGC
AAGCGGTGGAACAGCTGAGCCGCGAACTGGACACGCTGCGGGGCATCTTCCGCCAGCTGCCAGAGAGCTCCTTG
GTCAAGGCCATGGGCAACTGCGCGTGAGGCGCGCGGCTGTGGGACCGCCCTGGGCCAGCCTCCGGCGGGGACCCA
GGGAGTGGTTTGGGGTCGCCGATCTCGAGGCTTGCCCGAGCCGTGCGAGCCAGGACTAGGAGATTCCGGTGCCT
CCTGAAAGCCTGGCCTGCTCCGCGTCTCCCTCCCTTCTCTGCGCCGACTTGGTGCGTCTAAGATGAGGGGGC
CAGGCGGTGGCTTCTCCCTGCGAGGAGGGGAGAATTCTTGGGGCTGAGCTGGGAGCCCCGGCAACTCTAGTATTTA
GGATAACCTTGTGCCTTGGAAATGCAAACTCACCGCTCCAATGCCTACTGAGTAGGGGGAGCAAATCGTGCCCTG
TCATTTTATTTGGAGGTTTCTGCTCCTTCCCGAGGCTACAGCAGACCCCATGAGAGAAGGAGGGGAGCAGGC
CCGTGGCAGGAGGAGGGCTCAGGGAGCTGAGATCCCGACAAGCCCGCCAGCCCCAGCCGCTCCTCCACGCTGTC
CTTAGAAAGGGGTGGAACATAGGGACTTGGGGCTTGGAACTAAGGTTGTTCCCTAGTTCTACATGAAGGTGG
AGGGTCTCTAGTTCCACGCTCTCCACCTCCCTCCGCACACACCCACCCAGCCTGCTATAGGCTGGGCTTCC
CCTTGGGGCGGAACTCACTGCGATGGGGGTACCAGGTGACCAGTGGGAGCCCCACCCCGAGTCACACCAGAAA
GCTAGGTGCTGGGTGAGCTCTGAGGATGTATACCCCTGGTGGGAGAGGGAGACCTAGAGATCTGGCTGTGGGGCG
GGCATGGGGGTGAAGGGCCACTGGGACCCTCAGCCTTGTTTGTACTGTATGCCTTCAGCATTGCCTAGGAACAC
GAAGCACGATCAGTCCATCCCAGAGGGACCGGAGTTATGACAAGCTTTCCAAATATTTTGCTTTATCAGCCGATA
TCAACACTTGTATCTGGCCTCTGTGCCCCAGCAGTGCCCTTGTGCAATGTGAATGTGCGCGTCTCTGCTAAACCAC
CATTTTATTTGGTTTTTTGTTTTGTTTTGGTTTTGCTCGGATACTTGCCAAAATGAGACTCTCCGTGCGCAGCTGG
GGGAAGGGTCTGAGACTCCCTTTCCCTTTGTTTTGGGATTACTTTTGATCCTGGGGGACCAATGAGGTGAGGGG
GGTTCCTTTTGGCCTCAGCTTTCCCCAGCCCTCCGGCCTGGGCTGCCACAAGGCTTGTCCCCCAGAGGCCCT
GGCTCCTGGTCGGGAAGGGAGGTGGCTCCCGCCAACGCATCACTGGGGCTGGGAGCAGGGAAGG

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FIGURE 5379

TTGAGGGTCAATTCCAACTCCTTCACTTTGGTTGTGTTAGTAGACAGGGCAACAAAGTGCTTCGCCACTGCAGA
AGGATCCTTGGCCGCCTGGAGAAACCACTCCTTCGCCGTCTCTGCATTTCGTGATGGTCTCCTGGGTAGTAAAGGT
CTTGGAGGCAATGATGAACAGGGAGGACTCGGGGTTTTCAGCTGGGCCAGGGTTTTGGCAATGTGAGTTCCATCAAT
GTTGGAGACATAACCAGACGCGGGGACCTCCTGAAGAGTATGGCTTAAGGGCTTCAGTCACCATGAGGGGTCCCAG
GTCGGAGCCGCCAATGCCAATGTTGATGACGTCCGTGATGGTCTTGCTGTGTACCCCTTCCAGTCACCGCTCCG
GACACGCTGGCAGAAAGACTTCATCTTGTCCAGAACCTTGTTGACCTCTGGCATCACATCCTTGCCGTCTACCAG
GATGGGTGTGTTTGACCGGTTCCGCAGAGCCACGTGCAGCACGGCTCGACCTCGGTGTAGTTGATCTTCTCACC
ATTGAACATCCGCTCCCGGGCGGCCTCCACGCCCCTGGACTTGGCCAAGTCCACCAGCATCCGCATCACGTCCTC
CGTCACCAGGTTCTTGGAGTAATCCACCAGGATATGCCCATGGTTGGTGTGAGGGTCAAGCTGAAGTGGTTGAA
GCGGTCTTGTGTTGGCATCGAAGAGGCGGCGCAGGTTTCAGCTCGGAGCGGTGCTCGCGGTACCATTGCTGCAGCTT
CTGGAAGTGGGGGTCCCGGGTGAGAGCGGCCATGGCGGGACTAGAAGGTACACTGAGTGAGACGCGAGCCGAGGA
GGAAGGAGCGCCGGCAGCGCGCAGCA

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FIGURE 5380

ATGACAAAGAAAAGAAAGAACAACAATCATGCCAAAAAGGGCCGCGGCCACATGCAGCCTATTTGCTGCATGAAC
TGTGCCCCGATGCATGCCCAAGTACAAAGCCGTTAAGAAACTCCTGTATGTGAAACTACATTACTGTGTGAGTTGT
GCAATTCACAGCAAAGTAGTCAGGAATCGATCTCATGAAGCCCGCAAGGACCCAACACCCCCCTCCCCGATTTAGA
CCTGCGGCTAGTATCCTGACACCAAAATCCAACCACTCGAAGACACAGACAAAATGTTCCATGCAAGATATTGGC
AAAGTGAATGAAATTACATATAAAGAATACTATAAGCTGATTAAGGAGAATTTACACCAGAAACGCAAGCCACCA
CCACCCCCAGTGTCCCCAAGGCTGAAGGTGCAAGCTTGCCCTGGCCCTGGCCCTGGCATAGAAAGTGCACGATCT
GGTCATGTCATGCAGGTGAGGATACCTGTGTGCCAGGTCTCCAGCTCCCTGGTGACAAGACTGACAGACAAAAC
AATGGAACCTGGTACCTAGAAGAGGATGAGAAGGATCCCCGTGAACCCTAG

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FIGURE 5381

MTKKRKNNNHAKKGRGHMQPICCMNCARCMPIKYKAVKKLLYVKLHYCVSCAIHSKVVRNRSHEARKDPTPPPRFR
PAASILTPKSNHSKTQTKCSMQDIGKVNEITYKEYYKLIKENLHQKRKPPPPVSPRLKVQACPGPGPGIESARS
GHVMQVRIPVCQVSSSLVTRLTDKTNGTWYLEEDEKDPREP

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FIGURE 5382

GGAAACCCAAGAGGAAATGACTGAGCCCGTCTGGGTCCCCGCCCGCTCGCGCTCCCCCTGGCCACACCCTCCGCCT
GGACGCAGCAGCCACCGCCGCGTCCCTCTCTCCACGAGGCTGCCGGCTTAGGACCCCCAGCTCCGACATGTCGCC
CTCTGGTCGCCTGTGTCTTCTCACCATCGTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATACCAC
GTCCAGTTCTTTCAGCAGACTCAACTATCATGGACATTTCAGGTCCTCGACACGAGCCCCAGATGCAGTCTACACAGA
ACTCCAGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCCAGACCCAGACCCAGCAACT
GGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAAGCAGCTCATCCCCTGATGA
CACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCCAGACAGACCCCCAGACCCCTCAAGCCATCTGG
TTTTCATGAGGATGACCCCTTCTTCTATGATGAACACACCCTCCGGAACGGGGGCTGTTGGTCGCAGCTGTGCT
GTTTCATCACAGGCATCATCATCCTCACCAGTGGCAAGTGCAGGCAGCTGTCCCGGTTATGCCGGAATCGTTGCAG
GTGAGTCCATCAGAAACAGGAGCTGACAACCTGCTGGGCACCCGAAGACCAAGCCCCCTGCCAGCTCACCCTGCC
CAGCCTCCTGCATCCCCTCGAAGAGCCTGGCCAGAGAGGGAAGACACAGATGATGAAGCTGGAGCCAGGGCTGCC
GGTCCGAGTCTCCTACCTCCCCCAACCCTGCCCGCCCTGAAGGCTACCTGGCGCCTTGGGGGCTGTCCCTCAAG
TTATCTCCTCTGCTAAGACAAAAAGTAAAGCACTGTGGTCTTTGC

[illegible]

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FIGURE 5384

[illegible]

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FIGURE 5385

CTCTGACAAAAGCATCTCAGTGATTGACTTTTACTCGGGCGAGTGCATTGCCAAGATGTTTGGCCATT CAGAAAT
TATTACCAGCATGAAGTTCACCTATGACTGTGCATCACTTGATCACAGTATCTGGAGACAGCTGCGTGTT CATCTG
GCACCTGGGCCCCGAGATCACCAACTGCATGAAGCAGCACTTGCTGGAGATTGACCACCGGCAGCAGCAGCAGCA
CACAAATGACAAGAAGCGGAGTGGCCACCCCCAGGCAGGATACGTATGTGTCCACACCTAGTGAGATTCACTCCCT
GAGCCCTGGAGAGCAAACAGAGGATGATCTGGAGGAAGAGTGTGAGCCAGAAGAGATGCTGAAGACACCATCCAA
AGATAGCTTGGATCCAGATCCTCGTTGCCCTGCTAACCAACGGCAAGCTGCCACTGTGGGCAAAGCGGCTGCTAGG
GGACGATGATGTGGCAGATGGCTTGGCCTTCCACGCCAAGCGCAGCTACCAGCCCCACGGCCGCTGGGCAGAGCG
GGCCGGCCAAGAGCCCCCTCAAGACCATCCTGGATGCCCAGGACCTGGATTGCTACTTTACCCCCATGAAGCCCGA
GAGTCTGGAGAACTCCATTCTGGATTCACTGGAGCCACAGAGCCTGGCCAGCCTGCTGAGTGAGTCAGAGAGTCC
CCAGGAAGCTGGCCGCGGGCACCCCTCCTTCCCTGCCCCAGCAGAAGGAATCATCTGAGGCCAGTGAGCTCATCCT
CTACTCTCTGGAGGCAGAAGTGACAGTCACAGGGACAGACAGCCAGTATTGCAGGAAGGAGGTGGAGGCCGGGCC
TGGAGACCAGCAGGGCGACTCCTACCTCAGGGTGTCTCCGACAGCCCAAAGGACCAGAGCCCGCTGAGGACTC
GGGGGAGTCAGAGGCCGACCTGGAGTGCAGCTTCGCAGCCATCCACTCCCCAGCTCCGCTCCTGACCCTGCCCC
TCGGTTTGCCACGTCGCTGCCCCATTTCCCAGGATGCGCAGGTCCCACAGAAGATGAGCTGTCCCTGCCCCGAGGG
ACCCAGCGTCCCCAGCAGCTCCCTACCCAGACTCCGGAGCAGGAGAAGTTCTCCGCCACCACTTTGAGACACT
GACTGAGTCCCCCTGCAGAGCTCTGGGAGACGTGGAGGCCTCTGAAGCTGAAGACCACTTCTTCAACCCACGCCT
GAGTATCTCCACGCAGTTCCTCTCAAGCCTCCAGAAGGCATCCAGGTTACCCATACTTCCCTCCCCGGGCAAC
CCAGTGCCTTGTGAAGTCTCCAGAGGTCAAGCTCATGGACCGAGGCGGAAGCCAGCCCAGAGCAGGTACTGGCTA
CGCCTCCCCAGACAGGACCCACGTCTCGCTGCAGGGAAGGCTGAAGAGACCCTGGAGGCCTGGCGCCCCACCACC
TCCCTGCCTTACGAGCCTGGCGTCCCTGTGTCCCTGCTTCCCTCCGTGCTGCCCACAGACAGGAATCTCCCAACGCC
CACATCTGCACCCACCCAGGCCCTGGCTCAGGGTGTCCATGCCCCCTCCACCTGTTCTTACATGGAGGCCACTGC
CAGCTCCCGTGCCAGGATATCACGCAGCATCTCCCTCGGTGACAGTGAGGGCCCTATCGTGGCCACACTGGCCCA
GCCCCCTCCGTAGGCCATCGTCCGTTGGGGAGCTGGCCTCCTTGGGCCAGGAGCTTCAGGCCATCACCACCGCGAC
AACACCCAGTTTGGACAGTGAGGGCCAAGAGCCTGCCCTGCGTTCTTGGGGCAACCACGAGGCCCGGGCCAACCT
GAGACTGACCCCTGTCAAGTGCCCTGTGATGGGCTCCTGCAGCCCCCGTGGATACCCAGCCTGGCGTCAACCGTCCC
TGCAGTGAGCTTCCCAGCCCCCTAGCCCTGTGGAAGAGAGCGCCCTGAGGCTCCACGGCTCTGCCTTTTCGCCCAAG
TCTCCCAGCTCCTGAGTCCCCCTGGCCTTCCCTGCCCCACCCAGTAACCCCCAGCTTCCAGAGGCCCGGCCTGGCAT
CCCTGGCGGGCACTGCCTCCCTCCTGGAGCCACCTCCGGTGCACCTTGGTCTGTTACAGGGCAGCCCTGCCCGCTG
GAGTGAGCCCTGGGTGCCGTTGAAGCCCTGCCCCATCTCCCTTGAGCTGAGCAGGGTGGGGAACATCTTGCA
CAGGCTGCAGACCACCTTCCAAGAAGCCCTCGACCTTTACCGTGTGTTGGTCTCCAGTGGCCAGGTGGACACCGG
GCAGCAGCAGGCACGGACTGAGCTGGTCTCCACCTTCCCTGTGGATCCACAGCCAGCTGGAGGCTGAATGCCTGGT
GGGGACTAGTGTGGCCCCAGCCAGGCTCTGCCAGCCAGGACCCCGTCCCCACCGACGCTGTACCCCTGGC
CAGCCCAGACCTGCAGGCCCTGCTGGAACACTACTCGGAGCTGCTGGTGCAGGCCGTGCGGAGGAAGGCACGGGG
GCACTGAAGGGCGCAGCCCTCCACCGCAGCCCTGCTGCTTCTGAGGACTTAGGTATTTTAAGCGAATAAACTGAC
AGCTTTG

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FIGURE 5386

MKPESLENSILDSLEPQSLASLLSESESPQEAGRGHPSFLPQQKESSEASELILYSLEAEVTVTGTDSQYCRKEV
EAGPGDQQGDSYLRVSSDSPKDQSPPEDSGESEADLECSFAAIHSPAPPPDPAPRFATSLPHFPGCAGPTEDELS
LPEGPSVPSSSLPQTPEQEKFLRHHFETLTESPCRALGDVEASEAEDHFFNPRLSISTQFLSSLQKASRFTHTFP
PRATQCLVKSPEVKLMDRGGSQPRAGTGYASPDRTHTVLAAGKAEETLEAWRPPPPCLTSLASCVPASSVLPDTRN
LPTPTSAPTTPGLAQGVHAPSTCSYMEATASSRARISRSISLGDSEGPVATLAQPLRRPSSVGEASLGQELQAI
TTATTPSLDSEGQEPALRSWGNHEARANLRLTLSSACDGLLQPPVDTQPGVTVPVAVSFPAFSPVEESALRLHGSA
FRPSLPAPESPGLPAHPSNPQLPEARPGIPGGTASLLEPTSGALGLLQGSPARWSEPWVPVEALPPSPLELSRVG
NILHRLQTTTFQEALDLYRVLVSSGQVDTGQQQARTELVSTFLWIHSQLEAECLVGTSVAPAQALPSFGPPSPPTL
YPLASPDQLALLEHYSELLVQAVRRKARGH

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FIGURE 5387

AAGAAGACTACAATCTCCGGAGGGAAACCTGGGGCGTCTCGCGCAAACGTCCATAACTGAAAGTAGCTAAGGCAC
CCCAGCCGGAGGAAGTGAGCTCTCCTGGGGCGTGGTTGTTTCGTGATCCTTGCACTCTGTTACTTAGGGTCAAGGCT
TGGGTCTTGCCCCGCAGACCCTTGGGACGACCCGGCCCCAGCGCAGCTATGAACCTGGAGCGAGTGTCCAATGAG
GAGAAATTGAACCTGTGCCGGAAGTACTACCTGGGGGGGTTTGCTTTCTGCTTTTCTCTGTTGGTCAACATC
TTCTGGTTCTTCCGAGAGGCCTTCCTTGTCCTCAGCCTACACAGAACAGAGCCAAATCAAAGGCTATGTCTGGCGC
TCAGCTGTGGGCTTCCTCTTCTGGGTGATAGTGCTCACCTCCTGGATCACCATCTTCCAGATCTACCGGCCCCGC
TGGGGTGCCCTTGGGGACTACCTCTCCTTACCATACCCCCTGGGCACCCCTGACAACCTTCTGCACATACTGGGG
CCCTGCTTATTCTCCAGGACAGGCTCCTTAAAGCAGAGGAGCCTGTCTGGGAGCCCTTCTCAAACCTCCTAAG
ACTTGTTTTTCATGTCCACGTTCTCTGCTGACATCCCCAATAAAGGACCCTAACTTTCAAAAAAAAAAAAAA

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FIGURE 5388

MAKARNQLDAVLQCLLEKSHMDRERLDEEAGKTPSDTHNKDCSIAATGKRPSARFPHQRRKKRREMDDGLAEGGP
QRSNTYVIKLFDRSVDLAQFSENTPLYPICRAWMRNPSVRERECSPSSPLPPLPEDEEGSEVTNSKSRDVYKLP
PPTPPGPPGDACRSRIPSPLQPEMQGTPDDEPSEPEPSPSTLIYRNMQRWKRIQRWKEASHRNQLRYSESMKIL
REMYERQ

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FIGURE 5389

GGCACGAGGGGGGAGAGTAGACAGCAGAACCAGCGGCGGGCGGCTAAGCAGAGACTGTAGTAGCGGCGACAGCGAC
GACGGCAGCGATGGCTGGGGCGGGGCCAGCCCCGGGACTCCCGGGTGCAGGAGGACCCGTGGTCCCGGGTCCTGG
CGCTGGCATCCCGGGCAAAAGCGGCGAGGAACGCTTGAAGGAAATGGAGGCGGAGATGGCCCTGTTTGAGCAGGA
AGTTCTGGGGGCTCCAGTACCTGGAATCCCAACTGCTGTGCCTGCGGTGCCCCACTGTCCCCACGGTCCCCACAGT
AGAAGCGATGCAGGTCCCAGCGGCTCCTGTGATCCGCCCAATTATCGCGACCAACACATACCAGCAGGTCCAGCA
GACTCTGGAGGCCCGAGCAGCTGCTGCAGCCACAGTAGTTCTCTCCCATGGTGGGTGGCCCTCCTTTTGAGGCC
TGTGGCTTTGGCCCTGGTGATCGGAGTCACCTGGACAGCCCAGAGGCTCGAGAAGCCATGTTCTGCGGCGGGC
AGCTGTGGCCCCCAGAGGGCCCTATCCTGCGTCCAGCCTTCGTCCCCCACGTGCTACAGAGAGCAGATTCCGC
TCTCTCTCTGCAGCAGCCGGCCCCCGCCCTATGGCCCTACGGCCCCCTCACCAGGCCCTCGTGGGCCCCCTCT
GCCTGGGCCCCCTGGACCACCCATGATGCTGCCACCAATGGCTCGGGCTCCAGGGCCCCCGCTGGGCTCCATGGC
TGCACTGAGGCCCCCTCTGGAAGAGCCAGCAGCACCCCGAGAGCTGGGCCTAGGCCTGGGGTTGGGCCTGAAAGA
GAAGGAAGAGGCAGTGGTGGCGGCGGCGGCTGGGCTGGAGGAGGCTAGCGCGGCTGTGGCCGTGGGGGCAGGAGG
TGCCCCAGCTGGCCCTGCAGTCATTGGGCCCAGCCTGCCGCTGGCCCTGGCCATGCCATTGCCCGAGCCTGAGCC
CCTGCCCCCTCCCGTTGGAGGTGCTCCGCGGCCTCCTGCCCCCGCTGCGCATTCCTGAACTCCTGTCCCTGCGTCC
TCGGCCCCCGCCCCCTCGGCCAGAGCCACCCCGAGGCCTCATGGCTCTTGAGGTCCCAGAGCCCCTGGGTGAAGA
CAAGAAGAAGGGGAAGCCAGAGAAATTGAAACGGTGCAATTCGCACAGCGGCAGGGAGCAGCTGGGAGGACCCAG
CCTGCTGGAGTGGGATGCAGATGACTTCCGGATCTTCTGTGGGGATCTGGGCAATGAGGTGAACGATGACATCTT
GGCACGCGCCTTCAGCCGCTTCCCATCCTTCTTAAGGCCAAGGTGATCCGTGACAAGCGCACAGGCAAGACCAA
GGGCTACGGCTTCGTGAGCTTCAAGGACCCCGAGCGACTACGTGCGCGCCATGCGTGAGATGAATGGGAAGTATGT
GGGCTCGCGCCCCATCAAGCTTCGCAAGAGCATGTGGAAGGACCGGAATCTGGACGTGGTCCGCAAGAAGCAGAA
GGAAAAGAAGAAGCTGGGCCTGAGATTAGGGTCTGTGGCCAGGCACCCGCTCCCACCTGGCCGGGCGCTGGCTCCT
CCCTCAGTTCTCTTTGAAAAACCCCGAGCTGTCCACCCATCCCCTGCCCCAAAACCAGTTTCAATAAATTTACGT
TCATTTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5390

MAGAGPAPGLPGAGGPVVPGPAGIPGKSGEERLKEMEAEMALFEQEVLGAPVPGIPTAVPAVPTVPTVPTVEAM
QVPAAPVIRPIIATNTYQQVQQTLEAARAAAAATVPPPMVGPPFVGPVGFPGDRSHLDSPEAREAMFLRRAAVA
PQRAPILRPAFVPHVLQRADSALSSAAAGPRPMALRPPHQALVGPPLPGPPGPPMMLPPMARAPGPPLGSMAALR
PPLEEPAAPRELGLGLGLGLKEKEEAVVAAAAGLEEASA AVAGGAPAGPAVIGPSLPLALAMPLPEPEPLPL
PLEVVRGLLPPLRIPELLSLRPRPRPPRPEPPPGLMALEVPEPLGEDKKKGKPEKLRKRCIRTAAGSSWEDPSLLE
WDADDFRIFCGDLGNEVNDDILARAFSRFPSFLKAKVIRDKRTGKTKGYGFVSFKDPSDYVRAMREMNGKYVGSR
PIKLRKSMWKDRNLDVVRKKQKEKKKLGLR

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FIGURE 5391A

CGGTGTCGCCGCCGCGGCGCTGTCATGGAGCTAGCGCAGGAAGCGCGGGAAC TGGGTGCTGGGCGGTCTGAAGAG
ATGGGGGTGCCCGTGGCGGCCCGGGCCCCGGAATCGACGCTGCGCAGGCTGTGTCTGGGCCAGGGGGCTGACATC
TGGGCCTACATCTTGACAGCATGTGCACAGTCAGAGGACTGTCAAGAAGATCCGGGGAAACCTACTCTGGTATGGC
CACCAGGACAGTCCACAGGTCCGTCGGAAGTTAGAGCTGGAAGCTGCTGTGACCCGCTGCGGGCAGAAATCCAG
GAACTCGACCAGAGCCTGGAGCTGATGGAGCGAGACACTGAGGCTCAGGACACGGCCATGGAGCAGGCACGTCTAG
CACACTCAAGACACCCAGCGTCGAGCTCTCCTCCTCCGGGCCCCAAGCTGGGGCCATGCGAAGACAGCAGCATACG
CTCCGAGATCCCATGACAGCGGTGCGAATCAACTGAGGCGCCTGACAGGACATGGAGAGGAAAGCCAAAGTAGAT
GTGACCTTTGGATCCCTCACGTGCGCAGCTCTGGGCCTGGAGCCCGTGGTCTGCGTGATGTCCGAACAGCCTGC
ACCTTCCGGGCCCCAGTTCTGCGAAGCTCCTGCTTCCCCAGGCCAAGAGGGGCAGCCTCCCAACCCCTCATGAT
GACCACTTTGGCACTTCGTACCAGCAGTGGCTGAGCTCAGTGGAGACGCTGCTGACAAACCACCCCCAGGCCAC
GTCTGGCTGCCTTGGAGCACCTGGCTGACAGAGCGGGAGGCAGAGATTCCGGTCCCTGTGACGTGGGGATGGGCTT
GGCGACACAGAGATATCCAGACCCAGGCCCGGACCAGTCAGACTCCAGCCAGACCCTGCCGTCCATGGTTTCAT
CTCATCCAGGAGGGCTGGCGGACTGTGGGTGTGCTGGTCTCCAGCGGAGCACCTCCTGAAGGAGCGGCAAGTC
TTGACCCAGCGCCTCCAGGGCCTGGTGGAGGAGGTGGAGAGACGCGTCTGGGATCCAGTGAGAGGCAGGTGCTG
ATACTGGGGCTTCGGCGCTGTTGCCTGTGGACGGAGCTCAAGGCCCTGCACGATCAGAGCCAGGAGCTGCAGGAT
GCAGCTGGGCATCGGCAGCTCCTGCTGAGGGAGCTACAGGCCAAACAGCAGCGGATCCTGCACTGGCGCCAGCTG
GTGGAGGAGACCCAGGAACAGGTCCGCTGCTCATCAAGGGAAACTCGGCCAGCAAGACCCGCTGTGCCGGAGC
CCGGGGGAGGTGCTAGCTCTGGTCCAGCGAAAGGTGGTCCCTACATTTGAGGCAGTGGCACCACAGAGCCGGGAG
CTGCTGCGCTGTCTGGAGGAGGAAGTCCGGCATTGCCCCACATTCTGTTGGGCACGCTGCTGCGGCACAGGCCG
GGAGAGTTGAAGCCCTGCCACGGTCTCCTCCATCCATCCACCAGCTGCACCCCGCGTCCCCAAGGGGCTCCAGC
TTCATAGCGCTGAGCCACAAGCTGGGGCTGCCTCCAGGGAAGGCCTCGGAGCTGCTCCTGCCGGCGGCTGCCTCT
CTTCGCCAGGACCTTCTGCTCCTGCAGGACCAGCGGAGCCTCTGGTGTGGGATCTACTCCACATGAAGACCAGC
CTGCCGCCAGGCCCTTCCCACCCAGGAGCTGCTGCAGATCCAGGCATCCCAGGAAAAACAGCAGAAAGAGAACCTG
GGGCAGGCTCTGAAGAGGCTGGAGAAGCTACTGAAACAGGCAGTGGAGCGAATCCCTGAGCTGCAGGGGATCGTG
GGGGACTGGTGGGAGCAGCCAGGCCAGGCCGCCCTCTCTGAGGAGCTCTGCCAGGGCCTGTCCCTGCCCCAGTGG
CGGCTGCGCTGGGTTGAGGCCAGGGGGCCCTGCGAAGCTGTGACGCTGAAGAGAGGGTTCAAACGGAAGCCGA
GAACTTGACACTGTTACCCCCAACACCTCACCTCCCCAGGACATTTGGAAGAAAGCAGCGCCAGGATTCCTCGG
CAGTCGTCCCCACCCGCACCTGCAGTCCCTCATGTGCTGTTCTGCTGCCCCACTCAGCTCCTGGACCCTGTCTCT
TTCATCCCGCTAAAGCACCCCTTAAACCCCTTCATCACTTTTATTCTCAGCAAAAAGTAATTGAGCACCTCCTC
TAGGCGCTGGGGAGTCCACACTGAACAAAAGAAACAGAAAACCCCTGTCTTCCAGCAGTTGAGTTCTAGGGCAGGG
AGACAGAGTTTACAAGATAAGGAAAATATATATGTAGTATGCTGCAAGTTAACTGCTGTGTGGGAAATCCAGCAG
GGGGTGGGATGTGTGATTTGAATTGAGGGCCACACTGCCAGGTCGTGCTCCGTCAAGGGGTGAGCAGGAGCAAC
AGGGGTGGCTGAGTAAGGGCTTGCAGCTGGAGGCAACAGCACATGCAAAGGCCCTGAGCCAGGATGTGCTGCAAT
AAGGGCCACTGAGGGGGACAGTGTAGGTTGGGGGTGAGGAATGTATTAAAAGATGAGATTGCCTTCTAGTTTGTA
TAGTTTCTTTTTTACATGTAAATCAGCCATTTGGAATTTATCCTAGCACATGGATCCAATTTTGTCTTATTTTA
CATATATCCTAGTAGCACTTACTGAAATTCAGTCAGAGTGGCAGTTGCCTCTGAGGGAAAGGTGGGTGGCAGGG
ATCAACTGAGGAGGAGACACAGAAATGTCCTAGCTGATGGGAATGTGCTGTGTCAAGAGCAGCGGCGGTGACGCA
GGTGTAGAGATTTGTCAGAGCTCATGTAGTTGTAGTCTTAAGGCCTGTGCATTTCACTGCGTGGGTACTCAATT
TATAAAGCAAAGCCCTTACACTTTTGAGATGCCACCTTTTTATGCACTAAATTTCCATGTTTAATTGGGTTATAT
CTGGCTTCTCTCCAGACCTGCTTTGTATTTAACTCTCCATGTGTCTATTCTACAGTAGCTTAATAGAAAGGCTTG
TGACACATTGTCATATCTGTTCTTGTCTTTCTTTTGTCTTTTTTTTTTTTTTTTTTTTTTGGAGATGCAGTCTCATTTCTGT
TGCCCAAGTTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCCATTCTCATG
CCTCAGCTTCCCCAGTAGCTAGGATTACAGGTACGCACCACCACGCCAGCTCATTTTTGTACTTTTAGTAGGGA
CGGGGTTTCATCATGTTGGCCAGACTGGTCTCGAACTCCTGACCTCAAGTGATCTGCCTGCCTCGGCCCTCCAAA
GTGCTGGGATTACAGGCATGAGCCACCGCGCCTGACCACATTGCCATATCTGAAATGGCTGGATTCTCTTAGGTG
CTTTTCTTTTTCTTTCTTTCTTTTCTTTTTTGGAGACAGAATCTGGCTGTTTCCCAGGCTGAAGTGCAGTGGCATG
AACTCAGCTCACTGCAACCTCTGCCTCCTGGATTCAAACAATTCTCATGTCTCAGCCTCCTGAATAGCTGGGATT
ACAGGCACCCACCACCATATCTGGCTAATATTTGTATTTTTTGTAGAGTCGGAGCTTTACCATGTTGGTCAGGCT

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FIGURE 5391B

GCTCTCCAACCTCCTGGCCTCAAGTGATTCTATCGCCTCTGCCTCCCAAATCTTCACCTGCTGGGATTAGTTTCCC
CTGTCTCAGTAAATTTTTTTTTCCCAAACCTAAGTGAACATTAGATTTAATTTGGCTGGCCCCAGAAGAAAAACATG
CACAGATGGTAGTTTTACTGGTGTTGCAGTAAGTTTTCAAATTTGGAAGTTTGGCAGCTTTATGATCTTGAACCT
TGCTGTCCATCTCTCACACAACCTCCTCTCTTGGCCTCCAGAGTCCCTTTACTCTCCAGCTTTCCTCCTGCCCT
GGCTGCTGTTTTCCAGCCTTTCCACATTGGCTTTCCCATGTAGTCCTTAGTGTGTCTGCTCCTCCTCTCTCCT
CATCACAGTTCCCAGCCCCACCTTCAACTGAACTCAACAAAATCTTCAACTTCATACAGTAGTCACATTGTTAG
TAATAACACTGGCATTTTTTATTTTGATAAAATAGACCGTTTAAATTTTGGAGATTCTACCTTATATTTTTGAAT
TATATACTAAAGCAAATAAGTAGTGATGTAATGTCATTGGGGACCAAGATTTTAGTGTAATGAAAAAGATAA
CAAATATAAACTCAAGTAAACACCCTGTAGTCTTTCACATGAATTGGAAATATCAGAATAAAGTCATGATTTTC
TCTTTCT

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FIGURE 5392

MELAQEARELGCWAVEEMGVPVAARAPESTLRRCLGQGADIWAYILQHVHSQRTVKKIRGNLLWYGHQDSPQVR
RKLELEAAVTRLRAEIQELDQSLELMERDTEAQDTAMEQARQHTQDTQRRALLLRAQAGAMRRQOHTLRDEMQRL
QNQLRRLQDMERKAKVDVTFGSLTSAALGLEPVVLRDVRTACTLRAQFLQNL LLPQAKRGS LPTPHDDHFGTSYQ
QWLSSVETLLTNHPPGHVLAALAEHLAAERAEIRSLCSGDGLGDEISRPQAPDQSDSSQTLPSMVHLIQEGWRT
VGVLVSQRSTLLKERQVLTQRLQGLVEEVERRVLGSSERQVLILGLRRCCLWTELKALHDQSQELQDAAGHRQLL
LRELQAKQQRILHWRQLVEETQEQVRLLIKNSASKTRLCRSPGEVLALVQRKVPTFEAVAPQSRELLRCLEEE
VRHLPHILLGTLLRHRPGELKPLPTVLPSTHQLHPASPRGSSFIALSHKLGLPPGKASELLLPAAASLRQDLLLL
QDQRLWCWDLHMKTS LPPGLPTQELLQIQASQEKQKENLGQALKRLEKLLKQALERIPELQGIVGDWWEQPG
QAALSEELCQGLSLPQWRLRWVQAQALQKLC

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FIGURE 5393

GGCACGAGGGCCCTGGCCGTGGCGAAAGAGCCGGCGGAGCCGGAGACCCGCTCCCGGAGACGCCGCCTCGCGATC
CCCGCGGGGCGGGACCGGGCGGCCGGCATCATGACCCTGTTTCACTTCGGGAACTGCTTCGCTCTTGCCCTACTT
CCCCTACTTCATCACCTACAAGTGCAGCGGCCTGTCCGAGTACAACGCCTTCTGGAAATGCGTCCAGGCTGGAGT
CACCTACCTCTTTGTCCAACCTCTGCAAGATGCTGTTCTTGGCCACTTTCTTTCCCACCTGGGAAGGCGGCATCTA
TGACTTCATTGGGGAGTTCATGAAGGCCAGCGTGGATGTGGCAGACCTGATAGGTCTAAACCTTGTCATGTCCCG
GAATGCCGGCAAGGGAGAGTACAAGATCATGGTTGCTGCCCTGGGCTGGGCCACTGCTGAGCTTATTATGTCCCG
CTGCATTCCCCATATGGGTCGGAGCCCCGGGGCATTGAGTTTGAAGTACATCCAGATGAGCATAGACTCCAA
CATCAGTCTGGTCCATTACATCGTCGCGTCTGCTCAGGTCTGGATGATAACACGCTATGATCTGTACCACACCTT
CCGGCCAGCTGTCTCCTGCTGATGTTCCCTCAGTGTCTACAAGGCCTTTGTTATGGAGACCTTCGTCCACCTCTG
CTCGCTGGGCAGTTGGGCAGCTCTACTGGCCCCGAGCAGTGGTAACGGGGCTGCTGGCCCTCAGCACTTTGGCCCT
GTATGTCGCCGTTGTCAATGTGCACTCCTAGGCTTGGTGTCTCAGACATTGATGTACCTTTTCCCTGCCTCGCTC
CAGGTTTtagTGAAGTAAACAGTATTTGGAAAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5394

MTLFHFGNCFALAYFPYFITYKCSGLSEYNAFWKCVQAGVTYLFVQLCKMLFLATFFPTWEGGIYDFIGEFMKAS
VDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSNISLVHYIVAS
AQVWMITRYDLYHTFRPAVLLLMFLSVYKAFVMETFVHLCSLGSWAALLARAVVTGLLALSTLALYVAVNVHS

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FIGURE 5395

ATGGCCGTTGCCAGCTTGCCCTTCCGTGCTAGTCGCATCTCAGCAGGATCCCCTCCCAGATTTGGTCCTGGTGCTT
GATGGTCGAGGCCATCTCCTGGGCCGCCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTG
GTCGTACGCTGTGAAGGCATCAACATTTCTGGCAATTTCTACAGAAACAAGTGCCCCTACCACTTCCGGGCCCC
AGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAAGCGAGGCCAGGCCGCTCTGGACCGT
CTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGGTGAGCTATGCCAAACCCACAGGCAGCGGCCTTAC
CTGTGGCGTCCATGA

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FIGURE 5396A

AAAAAATAGCCAGGCGTGGTGGCACATGCCTATAATCCCAGCTACTCAGGTGGCTGAGGCAGGAGAATCGCTTGA
ACCCAGGAGGCAGAGGCTGCAGTGAGCTGAGGTCACACCCTGCACTCCAGCCTGGGTGACAGAGTGAGACTCTG
TCTCAAAAAACAAACAAACAAAGCAAAAAATCAAAAAACATTGTTTCAGATCTTATTTTCCTATTGACCTAAGAGTTA
TTTAATATAGACTTTTGAATTTTCAGGTAGATTTTACTTGTGTTTCTTTTAATTTTATTATTAATTTCCAGTTTT
AGTAGAAAATGTCTATATAATTTCAACCTTTTTTTTTTGTCTAACTCCTAGTTTTGTGCTAGATTTTCAGCTTTTT
AATAGAGACCACCTTATCATAATTGAAAACCTCATCCTGTTTCTCTCTCATACACAACCTCATTGAGCTTGTAGAT
TTTCTCTGGCTGTTCTGTTGCTGGCTTGCCATCCTCTGGCCTACATGTAACGTGACTTCTGTTAGCAAGTCCT
TCACATTGAGATGACTGCAACAGTTGAACATGCACATTACTTTTTTCCACATTTCTGAGTTACAGGCATATCCTG
TCTTTTTGTGCCATGAATTTTATAAGAACTTCAGTAAGATATAGACGTGTTTTCTGTCCGAAAAATCACTGATA
CACATTTCTTAAAAAACAGGAATGGCCTTGACTATGAGGGAATGGAAAGGAGAAAACCTGAGCAATGGGAGGAA
AGAACAAAACAGTTGAACATTTGTCAAATGAATGAGTAATAGAATAAGTTGAAGGGAAGATTGAGTAGGTAGAA
CTCCTCAATACCTTTGCTATGGTGTAGAGACAAAGAAAAAGTTACCCATAGCTATGTGAAGGGGCAATGGGCAG
TGCCTGCTAGGTAAAGGCATAAGCAGTGGCAGATGCATAGGAATATACAGCCACCTATTTCCATTCTTGTATT
TAGCTGGGCTGCCCTGGATGAATAAAGAGAATATTTAATCACTGTAGTAAGGCATGAGAGACTAGAGGCAGAGAG
ATACATTTAGAACAAGTATGTAGCTATGGGAATTAATGAGTAAACCTATTATATGCTTAGCATTTATTACTTA
ATGTAGCGTTAACTAGGGATTGTTTCTGCTCTTGAGGAGGTTTATAGGTAAGAATAGGCAGTATAACAATTGGAG
AAGTTAATAAATATATAATTTTTAAATTGAGAGCTATTATAAAGGCAAGGAATAGAGAATAGCAACATGGATTTA
GGTACTATCAATAGGGTCAACCTTAAAGGAAATGACTTTTAATCTAAGATCTCAAGATGAAAGGAGCCAGCCATG
CAAAGAGCCCAATCAGGAGATTTGTGGGAGATAGAACAGACTGTGAAGAGTCCTAAGAGATGGAAGTAAGTTAGG
ACATGTGAGGTCTGCAAGGAGGCCTCTCCAGGGAGCAGTAAAGGGGACACTGGTTTGAGATCATATGATGTAGGT
AAGCAGAGGCCTTCTTAACCACAGTGAGCTTGACTGGATTCTGAGAATGAAGAAAGATGAAAAAAATTTAAGTAT
AGATTCTCGACCTCTCATCTTCATCAGAATTATCATGTAGAGAATATTAAATATCCTTCCAGGACTGCAGAGTCT
GATCCAGGTGGTTTGGGTGGTGTCTAAACCTCAGTGTAGTAACAAGCTATGTGGTGATTCTGATCCACACCTCA
ATATGAGAACCCTGACTTAAAAATGTTTACTTCATCACCATCTTGCTATTTTGTATGAACCTCTCATTTTTCTG
ATGTTCCCTTTGGCTTTTTTTTTTCTTTCCAAATTGTATAACAATATTTTAGAGTTTTGGTTAAGGATTACTTTTG
TTGTCTTTTATTTCTACATTAGAAATGTTGCTTCTTTTAGTAAAAGAAAACAGCATGTGTTTGTCTTCTGTTTT
ATTTTAGATTTGGAGACCAAGTATGAGACCAAGAAGTTATCTTTAGAAAATGACATTTATGAAATAAATTTATCC
CAGTGGAAGATAATGGAAGAATTGAAAACCATGGCCTTAAGGGTCTCATTTTAAAAAATGATTGGGAATCCACA
GGAAAAATTGAAGGACAGGAGAGACCTCAAGAAGGATACTTCAGTAGTGTGAAAATGCCATCTGAAAAGGTGTCC
TCTTACCAGAAACGCACATCTGTTACTCCACATCAGAGACTTCATTTTGTGATAAACCTATGAATGTAAGGAA
TGTAAGGAATGTGGGATGGCCTTCAGACAGACTGCACACCTTACTCGACATCAGAGACTTCATTCTGGTGAAAAA
CTCTATGAATGTAAGGAATGTGGGAAGCTTTCATATGTGGTGCAGATCTTAGAGTACATCAGAAAATGCATATT
GGTGAGAAGCCCTATGAATGTAAAGAATGTGGGAAGGCTTTTAGGGTACGAGGACAACCTACTCTGCATCAGAGG
ATTCATACTGGTGAGAAACCTATGTGTGTAAAGAGTGTGGAAAAGCCTTTAGACAGTACGCACACCTGACTCGG
CATCAGAAGCTTAATAGTGCTGACAGGCTCTATGAATGCAAGAATGTGGGAAGGCCTTTTTGTGTGGCTCTGGT
CTTAGAGTACATCAGAACTTCATACTGGTGAGAAACCTATGAATGTAAGGAATGCGGGAAGGCCTTTAGAGTG
CGACAACAATAACACTCCATCAGAGAATTCATACTGGTGAGAAACCTATGAATGTAAGGAATGTGGAAAGACC
TTTAGCCGTGGTTATCATCTTATTCTCCATCAGAAATTCATACTGGTGAAAAACCTTACGAATGTAAGGAATGC
TGGAAGCCTTTAGTCGCTACTCACAACCTATTTTACATCAGAGTATTCATATTGGTGTAAAGCCCTATGACTGT
AAGGAATGCGGGAAGGCCTTCAGACTACTTTTACAACCTCACACAGCATCAGAGTATTCATATTGGTGAGAAACCT
TATAAATGTAAGGAATGTGGCAAGGCCTTTAGATTGCGCCAAAACCTTACTCTACATCAGAGCATTCTACTGGC
GAAAAACCTTTGAGTGTAAGGAATGTAGGAAGGCCTTTAGACTTAATTCATCCCTTATTCAACATCTGAGAATT
CATTCTGGTGAGAAACCTATGAATGTAAGGAATGTAAGAAGGCCTTTAGGCAACATTCACACCTTACTCATCAT
CTGAAAATTCATAATGTAAAAATCTAAGAAAGTCTTTTCAACTTCTGTGTTATAGAACATTCTATGAATGTAGTA
ATTAATCTATTTTGTCTCATACATGCAACTGCGTTGGCATTAGAGGTTTTATACCATTAAAGAGTGTGACAATG
TATTGTAGTCCATCATCACTCAAACCTGAACTTCAGCATATTTGTTCTAAAACTAATCCTGTTATAAGAATGA
AAAAGACATTTACCGTCATCCCTATCCCATCACTTTGTGTCTACTGGACAAGACGCTTAAGTCTCTGTGCTAT

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FIGURE 5396B

AATTTTTTAATTTATGACATGGTCATATAAGAGTGCAGCAGTTTGACACACTTTCAATCAAGAGGTGGAATCTAC
ATCCCTCTGTTGTATACAGGAATCTACATCCCTCTGTGACTGCTTCGCCCAGTAGAATATGGTAGACGTACTGCT
GTGCTGGTTTCTTGACTCAGACTTTACTGGTAGGGTTACTTCATCTCATGAAATGACAGAACTGTCCTTGTTACAA
AGTCTGGCTACTTTGCTGAAGAGACCACATGAAGAGGCCCTGAACTACGTAGAGAGGGGAGAGGCACCTGCTGAA
CCCTGTCTTCTTGACATCCACCAAGATACCAGACATTTGAGTGAAATTTTGGATCCACCAGACCAGCCACCAGCT
AAATGCCAGTGAGCGACTTGGTAACCTGAACTGATGCCATGTAGAATGGAAGAATTGACCAGCTGAGCCCCTGGC
CCAAATTTCTGACCCACAAAACATGAGATATAATAAAATGGTTGTTGTTTAAAGCCACTAACTTTCTTTTATT
ATCATACTAAATATTTATTTTACATAATTCATACTAAAGGCTGTGGGCATAATGAGTATAGAAATGCCTTCCAC
CAACATTTAATCTTCATTGAACTTGAGATATCTTATTCTCGTTAAAATATTGAAAGTAAGGAATTCCTTTCCAGT
TTGTTTATTAAAAACAGATACCCTAGACCAGGTGAGGTGGCCCATGCCTGTAAATCCAGCACTTTGGGAGGCCA
AGTAAGGACGATTGCTTGAGGCCAGAAGTTCGAGACCAGCCTGGGCAACATGGTGAGACCCTGTCTCTACCAAAA
AACTTTAAAAATTAGCTGGGCATAATGGTGCATGCCTGTAGTCTAGCTACTCGAGGCTGAGGTGGGAGGATCAT
TTGAACCCAAAGAGTTGAGGCTTCAGTGAGCTGTGATTGTACCACTGCACTCCAGCTTGAGTGACTGCAAGACCCT
GTCTCAAAAAAAAAAAAAAACTACAATCAGTATTCTCTGGCCCCAGTCAATATTAAAAATTGACAAAGGATAACA
TGAAACTTTGGAAATTAAGTCACCTGTATTATGAAGCCCCATTAATTTTTTAACTACTTCATTGTTTTTTAA
AAATGCTAAATTGTCAATTTAGCATTTTGAGGCAATCCCTCAAATTGGCTCCTGTGTCTTTTATCATGACCAC
TCCAACCTTTGAGCTTTTTTTTTTCTGTAACCAAATGCATTGATTAGTTATGGAGCATACTAGAGCATTATTAAC
AAATAAAGGAAAAGAATGGAATATTTACCTTGCTATCCTTTACAACTATATTTCAAGACAACCAAAAGTTGGT
GAAGGAAAGTTGTTGATTAGAGAATTCCTCACTGGTTAAAGGTCAAAGGAGGCCAGGCGCGGTGGCTCAAGCCTG
TAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCGTGAGGTCAGGAGATCAAGACCATCCTGGCTAACACGG
TGAAACCCCATCTCTACTAAAAATACAAAAAATTCGCCGGGCGTGGTGGCAGGCGCCTGTAGTCCCAGCTACTCA
GGAGGCTGAGGCAGGAGAATGGCTTGAACCCGGGAGGCGGAGCTTGCACTGAGCCGAGATCGCGCCACTGCACTC
CAGCCTGGGTGACAGACCGAGACTCTGTCTCAACAAAAAACAAAAACAAAAACAAAGATCAAATGAATG
ATAGAATTTGAAAACCTACGCTCTTTAATTTTACAAAATCATGGATTTTTCGTGGTGATAGCAATGGATGCGAAGAC
CATTAGGTGAAAAATGGATAGGAAGCTTATAATGCATGGAGCAGAATGACAGGACACTAATCTATATTAACATCT
CTAAATGAGATCAGCCAGATGAACTTGATGTGATGAAATGGATACACACAGTGGACACCTGTGAAGTTTTCTTGG
CTCCCCCAAACTGAGAAGTACAAGTTAGTCTCAAACCTAATTACCAGTTTACAGGAAACATGGGGAATAAAG
AACAAATTAACAACACAAAGAAGCAAACAACCAAATGCACAATTTGGGAAATTCTGCAGAAGTAATGGCCTAGTT
TTTTAACCAATACATGTC

5854/6881
FIGURE 5397

MLLLLVKENS MCLLS CFILDL ETKYETKKLSLENDIYEINLSQWKIMERIENHGLKGLILKNDWESTGKIEGQER
PQEGYFSSVKMPSEKVSSYQKRTSVTPHQRLHFVDKPYECKECGKA FRVRQQLTFHHRIHTGEKPYECKECGMAF
RQTAHLTRHQRLHSGEKLYECKECGEAFICGADLRVHQMHIGE KPYECKECGKA FRVRGQLTLHQRIHTGEKPY
VCKECGKA FRQY AHLTRHQKLNSADRLYECKECGKAFLCGSGLRVHHLHTGEKPYECKECGKA FRVRQQLTLHQ
RIHTGEKPYECKECGKTFSRGYHLILHHRIHTGEKPYECKECWKAFSRYSQLISHQSIHIGVKPYDCKECGKA FR
LLSQLTQHQS IHI GEKPYKCKECGKA FR LRQKLT LHQS IHTGEKPFECKECRKA FR LNSSLIQHLRIHSGEKPYE
CKECKA FRQHSHLTHHLKIHN VKI

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FIGURE 5398

TGGATGGTGAACCCCTGATTCTGAAGTCGGTGTCTGCTGTGTTTCATGGCAGGATTCGGTTAGGAGGAACAGCACAG
CATGCTGGGCTCTGGATTTAAAGCTGAGCACTTAAGAGTGAATTTGAGATTAGTCATAAATCGCCTTGAACCTATT
GGAGGAAAAAAAAAAAAAAAAACAGAACTGGCCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAA
GATGAACGAGCTCGGATCCGTGTGGAGCACATTATCCGGGAAGACTACTTCGTGGAGGCCATGGAGATCCTGGAG
CTGTACTGTGATCTGCTGCTGGCTCGGTTTGGCCTTATCCAGTCTATGAAGGAACTAGATTCTGGTCTGGCTGAA
TCTGTGTCTACATTGATCTGGGCTGCTCCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAAATAGTTGCTGATCAG
CTCTGTGCCAAGTATAGCAAGTAATATGGCAAGCTATGTAGGACCAACCAGATTGGAAGTGTGAATGACAGTTTA
AGGCCTCGCTTAGTTGTACTGGATTCTCAGGGAGTCCTCTGTGGCCTTTTGGCTCTGAGTGCTGTTTCCCTTGTAC
CAGAGGGCAGCACCATGGAAATTCTGTTTTTTCCTGTAGCATATTGT

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FIGURE 5399

TGCCAGTCCATCTGACATCAAAGCCAGTGTCTCTAATGGTGACACCACCTCCTCTGCAGCAGGAGGCAGAGCTG
TGGGATGAATCAGGTTTCGCCAGGTCTCCCTTACCTATCCTGGGTCCCCAGCTCCTTCTCACTCTCTTCCCTTGCA
GCCTCGAAGCGGAGGATCCCTGTGTCCCAGCCGGGCATGGCGACCCCCACCAGCTTTTCGATGACACAAGTTTCAG
CCCAGAGCCGGGGCTATGGGGCCCAGCGGGCACCTGGTGGCCTGAGTTATCCTGCAGCCTCTCCCACGCCCCATG
CAGCCTTCCTGGCTGACCCGGTGTCCAACATGGCCATGGCCTATGGGAGCAGCCTGGCCGCGCAGGGCAAGGAGC
TGGTGGATAAGAACATCGACCGCTTCATCCCCATCACCAAGCTCAAGTATTACTTTGCTGTGGACACCATGTATG
TGGGCAGAAAGCTGGGCCTGCTGTTCTTCCCTACCTACACCAGGACTGGGAAGTGCAGTACCAACAGGACACCC
CGGTGGCCCCCGCTTTGACGTCAATGCCCCGGACCTCTACATTCCAGCAATGGCTTTCATCACCTACGTTTTGG
TGGCTGGTCTTGCGCTGGGGACCCAGGATAGGTTCTCCCCAGACCTCCTGGGGCTGCAAGCGAGCTCAGCCCTGG
CCTGGCTGACCCTGGAGGTGCTGGCCATCCTGCTCAGCCTCTATCTGGTCACTGTCAACACCGACCTCACCACCA
TCGACCTGGTGGCCTTCTTGGGCTACAAATATGTCGGGATGATTGGCGGGGTCTCATGGGCCTGCTCTTCGGGA
AGATTGGCTACTACCTGGTGTGCTGGGCTGGTGTGCGTAGCCATCTTTGTGTTTCATGATCCGGACGCTGCGGCTGA
AGATCTTGGCAGACGCAGCAGCTGAGGGGGTCCCGGTGCGTGGGGCCCCGGAACCAGCTGCGCATGTACCTGACCA
TGGCGGTGGCGGCGGCGCAGCCTATGCTCATGTACTGGCTCACCTTCCACCTGGTGCGGTGCAGCGCGCCCGCTGA
ACCTCCCGCTGCTGCTGCTGCTGCTGGGGGCCACTGTGGCCGCCGAACCTCATCTCCTGCCTGCAGGCCCCAAGGT
CCACCCTGTCTGGCCACAGGCACCGCCTCCATCCCATGTCCCGCCCAGCCCCGCCCCCAACCCAAGGTGCTGAGA
GATCTCCAGCTGCACAGGCCACCGCCCCAGGGCGTGGCCGCTGTTACAGAAACAATAAACCTGATGGGCATGG

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FIGURE 5400

MRFARSPLPILGPQLLLTLFPCSLEAEDPCVPAGHGDPHQLFDDTSSAQSRGYGAQRAPGGLSYPAASPTPHA
LADPVSNMAMAYGSSSLAAQGKELVDKNIDRFIPITKLKYYFAVDTMVGRKLGLLFFPYLHQDWEVQYQQDTPVA
PRFDVNAPDLYIPAMAFITYVLVAGLALGTQDRFSPDLLGLQASSALAWLTLEVLAILLSLYLVTNTDLTTIDL
VAFLGYKYVGMIGGVLMGLLFGKIGYYLVLGWCCVAIFVFMIRTLRLKILADAAAEGVPVRGARNQLRMYLTMAV
AAQPMMLMYWLTFLVR

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FIGURE 5401

CGGGGCGGCAGGCTTCTCGAGCTCCGGGCCCCGGGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGCATGTA
CGAGCAACTCAAGGGCGAGTGGAACCGTAAAAGCCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGGTGCGACTCAA
GCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACCACAGGGACCAAGCTGACCAAACAGCAGCTAATTCTGGCCCCG
TGACATACTGGAGATCGGGGCCCCAATGGAGCATCCTACGCAAGGACATCCCCCTCCTTCGAGCGCTACATGGCCCCA
GCTCAAATGCTACTACTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTATATGCACCAGCTCTTGGGCCTCAA
CCTCCTCTTCCTGCTGTCCAGAACCGGGTGGCTGAGTTCCACACGGAGTTGGAGCGGCTGCCTGCCAAGGACAT
ACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGT
CCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGA
GATCGCTGGGTGCATCGAGAAGGCCTACGAGAAAATCCTTTTCACTGAGGCCACCCGGATCCTCTTCTTCAACAC
ACCCAAAAAGATGACAGACTACGCCAAGAAGCGAGGGTGGGTCTGGGCCCCAACAACTACTACAGTTTTGCCAG
CCAGCAGCAGAAGCCGGAAGACACCACATTCCCTCCACAGAACTGGCCAAACAGGTCATCGAGTATGCCCGGCA
GCTGGAGATGATCGTCTTGACCCCCCCCGGGCACTGGGTGGGGCAGGGCACGAGTTATTTAAACAGTTACACTGCA
GGGTTTCGCCCAATAAAGGTGGACTGAC

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FIGURE 5402

MYEQLKGEWNRKSPNLSKCGEELGRLKLVLLLELNFLPTTGTKLTKQQLILARDILEIGAQWSILRKDIPSFERYM
AQLKCYFDFDYKEQLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLEQYLMEGSYNK
VFLAKGNIPAESYTFFIDILLDTIRDEIAGCIEKAYEKILFTEATRILFFNTPKKMTDYAKKRGWVLGPNNYYSF
ASQQQKPEDTTIPSTELAKQVIEYARQLEMIV

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FIGURE 5403A

TCTACCTCGCGGGTGCCTCTGGTGTCTCCAGAGGTCTCCGACCCAGCCCCAGCCCTCCCGCCCAGCCCG
CAGCCCCCTCCCTCTGTTCCCGACCTCAGACCCTGGGCTTCCGACCTCGACATCATGGGTGACGCAGAAGGCGA
AGACGAGGTCCAGTTCCTGCGGACGGACGATGAGGTGGTCTGTCAGTGCAGCGCTACCGTGCTCAAGGAGCAGCT
CAAGCTCTGCCTGGCCGCCGAGGGCTTCGGCAACCGCTGTGCTTCCTGGAGCCCACTAGCAACGCGCAGAATGT
GCCCCCGCATCTGGCCATCTGTTGCTTCGTCTGGAGCAGTCCCTGTCTGTGCGAGCCCTGCAGGAGATGCTGGC
TAACACGGTGGAGGCTGGCGTGGAGTCATCCCAGGGCGGGGACACAGGACGCTCCTGTATGGCCATGCCATCCT
GCTCCGGCATGCACACAGCCGCATGTATCTGAGCTGCCTCACCACCTCCCGCTCCATGACTGACAAGCTGGCCTT
CGATGTGGGACTGCAGGAGGACGCAACAGGAGAGGCTTGCTGGTGGACCATGCACCCAGCCTCCAAGCAGAGGTC
TGAAGGAGAAAAGGTCCGCGTTGGGGATGACATCATCTTGTCAGTGTCTCCTCCGAGCGCTACCTGCACCTGTC
GACCGCCAGTGGGGAGCTCCAGGTTGACGCTTCCTTCATGCAGACACTATGGAACATGAACCCCATCTGCTCCCG
CTGCGAAGAGGGCTTCGTGACGGGAGGTACGTCTCCGCCTCTTTTCATGGACATATGGATGAGTGTCTGACCAT
TTCCCCTGCTGACAGTGATGACCAGCGCAGACTTGCTCTACTATGAGGGGGAGCTGTGTGCACTCATGCCCGCTC
CCTCTGGAGGCTGGAGCCACTGAGAATCAGCTGGAGTGGGAGCCACCTGCGCTGGGGCCAGCCACTCCGAGTCCG
GCATGTCACTACCGGGCAGTACCTAGCGCTCACCAGGACCAGGGCCTGGTGGTGGTTGACGCCAGCAAGGCTCA
CACCAAGGCTACCTCCTTCTGCTTCGCGATCTCCAAGGAGAAGCTGGATGTGGCCCCCAAGCGGGATGTGGAGGG
CATGGGCCCCCTGAGATCAAGTACGGGGAGTCACTGTGCTTCGTGCAGCATGTGGCCTCAGGACTGTGGCTCAC
CTATGCTGCTCCAGACCCCAAGGCCCTGCGGCTCGGCGTGCTCAAGAAGAAGGCCATGCTGCACCAGGAGGGCCA
CATGGACGACGCACTGTGCTGACCCGCTGCCAGCAGGAGGAGTCCAGGCCGCCGCATGATCCACAGCACCAA
TGGCCTATACAACAGTTTCATCAAGAGCCTGGACAGCTTCAGCGGGAAGCCACGGGGCTCGGGGCCACCCGCTGG
CACGGCGCTGCCCATCGAGGGCGTTATCCTGAGCCTGCAGGACCTCATCATCTACTTCGAGCCTCCCTCCGAGGA
CTTGACGACGAGGAGAAGCAGAGCAAGCTGCGAAGCCTGCGCAACCGCCAGAGCCTCTTCCAGGAGGAGGGGAT
GCTCTCCATGGTCTGAATTGCATAGACCGCTAAATGTCTACACCCTGCTGCCCCTTTGCTGAGTTTGCAGG
GGAGGAGGCAGCCGAGTCTTGAAAGAGATTGTGAATCTTCTCTATGAACTCCTAGCTTCTCTAATCCGTGGCAA
TCGTAGCAACTGTGCCCTCTTCTCCACAACTTGACTGGCTGGTTCAGCAAGCTGGATCGGCTGGAGGCTCGTC
TGGCATCCTGGAGGTCTGTACTGTGCTCCTATTGAGAGTCCAGAGGTTCTGAACATCATCCAGGAGAATCACAT
CAAGTCCATCATCTCCCTCCTGGACAAGCATGGGAGGAACCACAAGGTCTGGACGTGCTATGCTCCCTGTGTGT
GTGTAATGGTGTGGCTGTACGCTCCAACCAAGATCTTATTACTGAGAACTTGCTGCCTGGCCGTGAGCTTCTGCT
GCAGACAAAACCTCATCAACTATGTACCAGCATCCGCCCAACATCTTTGTGGGCCGAGCGGAAGGCACCACGCA
GTACAGCAAAATGGTACTTTGAGGTGATGGTGGACGAGGTGACTCCATTTCTGACAGCTCAGGCCACCCACTTGCG
GGTGGGCTGGGGCCCTACCGAGGGCTACACCCCTACCCTGGGGCCGGCGAGGGCTGGGGCGGCAACGGGGTTCGG
CGATGACCTCTATTCTACGGCTTTGATGGACTGCATCTCTGGACAGGACAGTGGCACGCCCAGTGACTTCCCC
AGGGCAGCACCTCCTGGCCCCTGAAGACGTGATCAGCTGCTGCCTGGACCTCAGCGTGCCGTCCATCTCCTTCCG
CATCAACGGCTGCCCCGTGCAGGGTGTCTTTGAGTCCTTCAACCTGGACGGGCTCTTCTTCCCTGTTGTGCTGCT
CTCGGCTGGTGTCAAGGTGCGGTTCTCTCCTTGGTGGCCGCCATGGTGAATTCAAGTTCCTGCCCCACCTGGCTA
TGCTCCATGCCATGAGGCTGTGCTCCCTCGAGAGCGACTCCATCTTGAACCCATCAAGGAGTATCGACGGGAGGG
GCCCCGGGGGCTCACCTGGTGGGCCCCAGTCGCTGCCTCTCACACACCGACTTCGTGCCCTGCCCTGTGGACAC
TGTCAGATTGTCTGCCGCCCATCTGGAGCGCATTGGGAGAACTGGCGGAGAACATCCACGAGCTCTGGGC
GCTAACCCGCATCGAGCAGGGCTGGACCTACGGCCCGGTTTCGGGATGACAACAAGAGGCTGCACCCGTGTCTTGT
GGACTTCCACAGCCTTCCAGAGCCTGAGAGGAATAACAACCTGCAGATGTCTGGGGAGACGCTCAAGACTCTGCT
GGCTCTGGGCTGCCACGTGGGCATGGCGGATGAGAAGGCGGAGGACAACCTGAAGAAGACAAAACCTCCCCAAGAC
GTATATGATGAGCAATGGGTACAAGCCGGCTCCGCTGGACCTGAGCCACGTGCGGCTGACGCCGGCGCAGACGAC
ACTGGTGGACCGTCTGGCAGAAAATGGGCACAACGTGTGGGCCCGAGACCGCGTGGGCCAGGGCTGGAGCTACAG
CGCAGTGCAGGACATCCCAGCGCGCCGAAACCTCGGCTGGTGCCCTACCGCCTGCTGGATGAAGCCACCAAGCG
CAGCAACCGGGACAGCCTCTGCCAGGCCGTGCGCACCTCCTGGGCTACGGCTACAACATCGAGCCTCCTGACCA
GGAGCCCAGTCAGGTGGAGAACCAGTCTCGTTGTGACCGGGTGCATCTTCCGGGCAGAGAAATCCTATACAGT
GCAGAGCGGGCCGTGGTACTTCGAGTTTGAAGCAGTACCACAGGCGAGATGCGCGTGGGCTGGGGCAGGCCCGA
GCTGAGGCCTGATGTAGAGCTGGGAGCTGACGAGCTGGCCTATGTCTTCAATGGGCACCGCGGCCAGCGCTGGCA
CTTGGGCAGTGAACATTTGGGCGCCCCCTGGCAGCCGGCGCATGTGCTTGGCTGTATGATCGACCTCACAGAGAA

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FIGURE 5403B

CACCATTATCTTCACCCTCAATGGCGAGGTCCTCATGTCTGACTCAGGCTCCGAAACAGCCTTCCGGGAGATTGA
GATTGGGGACGGCTTCCTGCCCCGTCTGCAGCTTGGGACCTGGCCAGGTGGGTCATCTGAACCTGGGCCAGGACGT
GAGCTCTCTGAGGTTCTTTGCCATCTGTGGCCTCCAGGAAGGCTTCGAGCCATTTGCCATCAACATGCAGCGCCC
AGTCAACCACCTGGTTCAGCAAAGGCCTGCCCCAGTTTGAGCCAGTGCCCCCTTGAACACCCTCACTATGAGGTATC
CCGAGTGAGACGGCACTGTGGACACGCCCCCCTGCCTGCGCCTGACCCACCGCACCTGGGGCTCCCAGAACAGCCT
GGTGGAGATGCTTTTTCTGCGGCTGAGCCTCCAGTCCAGTTCACCAGCACTTCCGCTGCACTGCAGGGGCCAC
CCCCGTGGCACCTCCTGGCCTGCAGCCCCCGCCGAGGACGAGGCCCCGGCGCGGAACCCGACCCTGACTACGA
AAACCTGCGCCGCTCAGCTGGGGGCTGGAGCGAGGCAGAGAACGGCAAAGAAGGGACTGCGAAGGAGGGCGCCCC
CGGGGGCACCCCGCAGGCGGGGGGAGAGGCGCAGCCGCCAGGGCGGAGAATGAGAAGGATGCCACCACCGAGAA
GAACAAGAAGAGAGGCTTCTTATTCAAGGCCAAGAAGGTGCGCATGATGACCCAGCCACCGGCCACCCCCACGCT
GCCCCGACTCCCTCACGACGTGGTGCCTGCAGACAACCGCGATGACCCGAGATCATCCTCAACACCACCACGTA
CTATTACTCCGTGAGGGTCTTTGCTGGACAGGAGCCAGCTGCGTGTGGGCGGGCTGGGTACCCCTGACTACCA
TCAGCACGACATGAGCTTCGACCTCAGCAAGGTCCGGGTGCTGACGGTGACCATGGGGGATGAACAAGGCAACGT
CCACAGCAGCCTCAAGTGTAGCAACTGCTACATGGTGTGGGGCGGAGACTTTGTGAGTCCGGGCGAGCAGGGCCG
GATCAGCCACACGGACCTTGTCAATTGGGTGCCTGGTGGACTTGGCCACTGGCTTAATGACCTTTACAGCCAATGG
CAAAGAGAGCAACACCTTTTTCCAGGTGGAACCCAACACTAAGCTATTTCTGCGCTCTTCGCTCTGCCACCCA
CCAGAACGTCACTCAGTTTGAGCTGGGGAAGCAGAAGAATCATGCCGTTGTCAGCCGCCATGTTCCAAAGCGA
GCGCAAGAACCCGGCCCCCGCAGTGCCACCGCGGCTGGAGATGCAGATGCTGATGCCAGTGTCTGGAGCCGCAT
GCCCAACCACTTCTGCAGGTGGAGACGAGGCGTGCCGGCGAGCGGCTGGGCTGGGCGGTGCAGTGCCAGGAGCC
GCTGACCATGATGGCGCTGCACATCCCCGAGGAGAACCGGTGCATGGACATCCTGGAGCTGTGCGAGCGCCTGGA
CCTGCAGCGCTTCCACTCGCACACCCTGCGCCTCTACCGCGCTGTGTGCGCCCTGGGCAACAATCGCGTGGCGCA
CGCTCTGTGCAGCCACGTAGACCAAGCTCAGCTGCTGCACGCCCTGGAGGACGCGCACCTGCCAGGCCCACTGCG
CGCAGGCTACTATGACCTCCTCATCAGCATCCACCTCGAAAGTGCCCTGCCGCAGCCGCCCTCCATGCTCTCTGA
ATACATCGTGCCCTCACGCCTGAGACCCGCGCCATCACGCTCTTCCCTCCTGGAAGGAGCACAGAAAATGGTCA
CCCCCGCATGGCCTGCCGGGAGTTGGAGTCAACACTTCGCTGAGGCCCCCGCATCATTCTCGCCCCCTGTTT
CGTGGCCGCTCTGCCAGCTGCTGGGGCAGCAGAGGCCCCGGCCCCGCTCAGCCCTGCCATCCCGCTGGAGGCCCT
GCGGGACAAGGCACTGAGGATGCTGGGGGAGGCGGTGCGCGACGGTGCGGCGAGCGCTGGGCTGGGCGGTGCAGTGCCAGGAGCC
CTCCGTGGAGTTCCAGTTTGTGCTGTGCTCAAGCTCGTGTCCACCCTGCTGGTGATGGGCATCTTTGGCGATGA
GGATGTGAAACAGATCTTGAAGATGATTGAGCCTGAGGTCTTCACTGAGGAAGAAGAGGAGGAGGACGAGGAGGA
AGAGGGTGAAGAGGAAGATGAGGAGGAGAAGGAGGAGGATGAGGAGGAAACAGCACAGGAAAAGGAAGATGAGGA
AAAAGAGGAAGAGGAGGAGCAGCAGAAGGGGAGAAAGAAGAAGGCTTGAGGAAGGGCTGCTCCAGATGAAGTTGCC
AGAGTCTGTGAAGTTACAGATGTGCCACCTGCTGGAGTATTTCTGTGACCAAGAGCTGCAGCACCGTGTGGAGTC
CCTGGCAGCCTTTGCGGAGCGCTATGTGGACAAGCTCCAGGCCAACCAGCGGAGCCGCTATGGCCTCCTCATAAA
AGCCTTCAGCATGACCGCAGCAGAGACTGCAAGACGTACCCGCGAGTCCGCTCCCCACCCAGGAACAGATCAA
TATGCTATTGCAATTCAAAGATGGTACAGATGAGGAAGACTGTCTCTCCCTGAAGAGATTGACAGGATTTGCT
TGACTTTTCATCAAGACCTGCTGGCACACTGTGGAATTGAGCTAGATGGAGAGGAGGAGGAACCAGAGGAAGAGAC
CACCCTGGGCAGCCGCCTCATGAGCCTGTTGGAGAAAGTGCGGCTGGTGAAGAAGAAGGAAGAGAAACCTGAGGA
GGAGCGGTGAGCAGAGGAGAGCAAAACCCCGGTCCCTGCAGGAGCTGGTGTCCACATGGTGGTGCCTGGGCCCA
AGAGGACTTCGTGCAGAGCCCCGAGCTGGTGGGGCCATGTTGAGCCTCCTGCACCGGCAGTACGACGGGCTGGG
TGAGCTGCTGCGTGCCCTGCCGCGGGCGTACACCATCTCACCGTCTCCGTGGAAGACACCATGAGCCTGCTCGA
GTGCCCTCGGCCAGATCCGCTCGCTGCTCATCGTGAGATGGGCCCCCAGGAGGAGAAACCTCATGATCCAGAGCAT
CGGGAACATCATGAACAACAAAGTCTTCTACCAACACCCGAACCTGATGAGGGCGCTGGGCATGCACGAGACGGT
CATGGAGGTGATGGTCAACGTCCTCGGGGGCGGCGAGTCCAAGGAGATCCGCTTCCCCAAGATGGTGACAAGCTG
CTGCCGCTTCTCTGCTATTTCTGCCGAATCAGCCGGCAGAACACGCGCTCCATGTTTGACCACCTGAGCTACCT
GCTGGAGAACAGTGGCATCGGCCTGGGCATGCAGGGCTCCACGCCCTGGACGTGGCTGCTGCCTCCGTATTGA
CAACAATGAGCTGGCCTTGGCATTGCAGGAGCAGGACCTGGAAAAGGTTGTGTCTTACCTGGCAGGCTGTGGCCT
CCAGAGCTGCCCCATGCTTGTGGCCAAAGGGTACCCAGACATTGGCTGGAACCCCTGTGGTGGAGAGCGCTACCT
GGACTTCTGCGCTTTGCTGTCTTCGTCAACGGCGAGAGCGTGGAGGAGAACGCCAATGTGGTGGTGC GGCTGTCT

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FIGURE 5403C

CATCCGGAAGCCTGAGTGCTTCGGACCCGCCCTGCGGGGTGAGGGTGGCTCAGGGCTGCTGGCTGCCATCGAAGA
GGCCATCCGCATCTCCGAGGACCCTGCGAGGGATGGCCAGGCATCCGCAGGGACCGGCGCGGAGCAGCTTTGG
TGAGGAACCGCCTGAAGAAAACCGGGTGACCTGGGACACGCCATCATGTCTTCTATGCCGCCCTTGATCGACCT
GCTCGGACGCTGTGCACCAGAGATGCATCTAATCCAAGCCGGCAAGGGTGAGGCCCTGCGGATCCGCGCCATCCT
CCGCTCCCTTGTGCCCTTGGAGGACCTTGTGGGCATCATCAGCCTCCCACTGCAGATTCACACCTTGGCAAAGA
TGGGGCTCTGGTGACGCCAAAAGATGTCAGCATCCTTCGTGCCGGACCACAAGGCGTCCATGGTGCTCTTCTGGA
CCGTGTGTATGGCATCGAGAACCAGGACTTCTTGCTGCACGTGCTGGACGTGGGGTTTCTGCCGACATGAGGGC
AGCCGCTCGCTGGACACGGCCACTTTCAGCACCACCGAGATGGCGCTGGCGCTGAACCGCTACCTGTGCCTGGC
CGTGCTGCCGCTCATCACCAAGTGTGCGCCGCTCTTTGCGGGCACAGAACACCGCGCCATCATGGTGGACTCTAT
GCTGCATACCGTGTACCGCCTGTCTCGGGGTGCTTCGCTCACCAAGGCGCAGCGTGACGTATCGAGGACTGCCT
CATGTGCTCTGTCAGGTACATCCGCCCCTGATGCTGCAGCACCTGTTGCGCCGCTGGTGTTGACGTGCCCAT
CCTCAACGAGTTCGCCAAGATGCCACTCAAGCTCCTCACCAACCACTATGAGCGCTGTTGGAAGTACTACTGCCT
ACCCACGGGCTGGGCCAAGTTCGGGGTCACCTCAGAGGAGGAGCTGCACCTCACACGGAAGTCTTCTGGGGCAT
CTTTGACTCTCTGGCCCCATAAGAAATACGACCCGGAGCTGTACCGCATGGCCATGCCTTGTCTGTGCGCCATTGC
CGGGGCTCTGCCCCCGACTATGTGGATGCCTCATCTCATCTAAGGCAGAGAAAAAGGCCACAGTGGATGCTGA
AGGCAACTTTGATCCCCGGCTGTGGAGACCCTCAATGTGATCATCCCGGAGAAGCTGGACTCCTTCATTAACAA
GTTTGCGGAGTACACACACGAGAAGTGGGCCTTCGACAAGATCCAGAACAAGTGGTCTATGGAGAGAACATAGA
CGAGGAGCTGAAGACCCACCCATGCTGAGGCCCTACAAGACCTTTTCAGAGAAGGACAAAGAGATTTACCGCTG
GCCCATCAAGGAGTCCCTGAAGGCCATGATTGCCTGGGAATGGACGATAGAGAAGGCCAGGGAGGGTGAGGAGGA
GAAGACGGAAGAAAAAAGCGGGAAGATATCACAAGTGCCAGACCTATGATCCTCGAGAAGGCTACAACCC
TCAGCCCCCGACCTTAGTGCTGTTACCCTGTCCCGGAGCTGCAGGCCATGGCAGAACAACTGGCAGAAAAATTA
CCACAACACGTGGGGACGGAAGAAGCAGGAGCTGGAAGCCAAAGGCGGTGGGACCCACCCCTGCTGGTCCC
CTACGACACGCTCACGGCCAAGGAGAAGGCACGAGATCGAGAGAAGGCCAGGAGCTACTGAAATTCCTGCAGAT
GAATGGCTACGCGTTACAAGAGGCCTTAAGGACATGGAAGTGGACTCGTCTTCCATTGAAAAGCGGTTTGCCTT
TGGCTTCTGTCAGCAGCTGCTGCGCTGGATGGACATTTCTCAGGAGTTTATTGCCACCTGGAGGCTGTGGTCA
CAGTGGGCGAGTGGAAGTCCCCACATGAACAGGAGATTAAATTCTTTGCCAAGATCCTGCTCCCTTTGATCAA
CCAGTACTTCACCAACCACTGCCTCTATTTCTTGTCCACTCCGGCTAAAGTGCTGGGCAGCGGTGGCCACGCCTC
TAACAAGGAGAAGGAAATGATCACCAGCCTCTTCTGCAAACCTTGCTGCTCTCGTCCGCCACCGAGTCTCTCTCT
TGGGACAGACGCCCCAGCTGTGGTCAACTGTCTTCACATCCTGGCCCGCTCCCTGGATGCCAGGACAGTGATGAA
GTCAGGCCCTGAGATCGTGAAAGGCTGGCCTCCGCTCCTTCTTCGAGAGTGCTCGGAGGACATCGAGAAGATGGT
GGAGAACCTGCGGCTGGGCAAGGTGTGCGAGGCGCGCACCCAGGTGAAAGGCGTGGGCCAGAACCTCACCTACAC
CACTGTGGCACTGCTGCCGGTCTCTACCAACCTCTTCCAGCACATCGCCAGCACCAGTTCGGAGATGACGTAT
CCTGGACGACGTCCAGGTCTCTTGTACCGAACGCTGTGCAATCTACTCCCTGGGAACCAAGAACTTA
TGTGGAAGGCTTCGGCCAGCCCTCGGGGAGTGCTGGCCGCTGTCGAGCAGCCATGCCGGTGGCGTTCTTGGGA
GCCGACGCTGAACGAGTACAACGCTGCTCCGTGTACACCACCAAGTCTCCGCGGAGCGGGCCATCCTGGGGCT
CCCCAACAGTGTGGAGGAGATGTGTCCCGACATCCCGGTGCTGGAGCGGCTCATGGCAGACATTGGGGGGCTGGC
CGAGTCAGGTGCCCGCTACACAGAGATGCCGATGTCATCGAGATCACGCTGCCCATGCTATGCAGCTACCTGCC
CCGATGGTGGGAGCGCGGGCCGAGGCACCCCTTCCGCCCTGCCGCGCGGCGCCCCCACCCTGCACAGCTGT
CACCTCTGACCACCTCAACTCCCTGCTGGGGAATATCCTGAGAATCATCGTCAACAACCTGGGCATTGACGAGGC
CTCCTGGATGAAGCGGCTGGCTGTGTTGCGACAGCCATTGTGAGCCGTGCACGGCCGGAGCTCCTGCAGTCCCCA
CTTCATCCCAACTATCGGGCGGCTGCGCAAGAGGGCAGGGAAGGTGGTGTCCGAGGAGGAGCAGCTGCGCCTGGA
GGCCAAGGCGGAGGCCAGGAGGGCGAGCTGCTGGTGCGGGACGAGTTCTCTGTGCTCTGCCGGGACCTCTACGC
CCTGTATCCGCTGCTCATCCGCTACGTGGACAACAACAGGGCGCAGTGGCTGACGGAGCCGAATCCAGCGCGGA
GGAGCTGTTCAAGATGGTGGGCGAGATCTTCATCTACTGGTCCAAGTCCCACAACCTTCAAGCGCGAGGAGCAGAA
CTTTGTGGTCCAGAATGAGATCAACAACATGTCTTCTGACTGCTGACAACAAAAGCAAAATGGCTAAGGCGGG
AGATATACAGTCCGGTGGCTCGGACCAGGAACGCACCAAGAAGAAGCGCGGGGGGACCGGTACTCTGTGCAGAC
GTCATGATCGTGGCCACACTGAAGAAGATGCTGCCCCATCGGCCTGAATATGTGTGCGCCACCGACCAAGACCT
CATCACGCTGGCCAAGACCCGTTACGCCCTGAAAGACACAGATGAGGAGGTCCGGGAATTTCTGCACAACAACCT

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FIGURE 5403D

TCACCTTCAGGGAAAGGTCGAAGGCTCCCCGTCTCTGCGCTGGCAGATGGCTCTGTACCGGGGCGTCCCGGGTCTG
CGAGGAGGACGCCGATGACCCCGAGAAAATCGTGCGCAGAGTCCAGGAAGTGTACGCCGTGCTCTACTACCTGGA
CCAGACCGAGCACCCCTTACAAGTCTAAGAAGGCCGTGTGGCACAAGCTTTTGTCCAAACAGCGCCGGCGGGCAGT
CGTGGCCTGTTTCCGTATGACGCCCCGTGTACAACCTGCCCACGCACCGGGCATGTAACATGTTCTTGAGAGCTA
CAAGGCTGCATGGATCCTGACTGAAGACCACAGTTTTGAGGACCGCATGATAGATGACCTTTCAAAAGCTGGGGA
GCAGGAGGAGGAGGAGGAAGAGGTGGAAGAGAAGAAGCCAGACCCCCCTGCACCAGTTGGTCTGCACTTCAGCCG
CACTGCCCTGACGGAAAAGAGCAAACTGGATGAGGATTACCTGTACATGGCCTATGCTGATATCATGGCAAAGAG
CTGCCACCTGGAGGAGGGAGGGGAGAACGGTGAAGCTGAAGAGGAGGTTGAGGTCTCCTTTGAGGAGAAACAGAT
GGAGAAGCAGAGGCTCTTGTACCAGCAAGCACGGCTGCACACCCGGGGGGCGGCCGAGATGGTGCTGCAGATGAT
CAGTGCTGCAAAAGGAGAGACAGGTGCCATGGTGCTCTCCACCCTGAAGCTGGGCATCTCCATCCTCAATGGAGG
CAATGCTGAGGTCCAGCAGAAAATGCTGGATTATCTTAAGGACAAGAAGGAAGTTGGCTTCTTCCAGAGTATCCA
GGCACTGATGCAAAACATGCAGCGTCTGGATCTCAATGCCTTTGAGAGACAGAACAAGGCCGAGGGGCTGGGCAT
GGTGAATGAGGATGGCACTGTCAATCGCCAGAACGGAGAGAAGGTCAATGGCGGATGATGAATTCACACAAGA
CCTGTTCCGATTCTTACAATTGCTCTGTGAGGGGACATAATGATTTCCAGAACTACCTACGGACACAGACAGG
GAACACGACCACTATTAACATCATCATTTGCACTGTGGACTACCTCCTGCGGCTGCAGGAATCCATCAGCGACTT
CTACTGGTACTACTCGGGCAAGGATGTCATTGAAGAGCAGGGCAAGAGGAACCTTCTCCAAAGCCATGTCGGTGCC
TAAGCAGGTGTTCAACAGCCTCACTGAGTACATCCAGGGTCCCTGCACCGGGAACCAGCAGAGCCTGGCGCACAG
TCGCCTATGGGACGCAGTGGTGGGATTCTGCACGTGTTGCCCCACATGATGATGAAGCTCGCTCAGGACTCAAG
CCAGATCGAGCTGCTGAAGGAGCTGCTGGATCTGCAGAAGGACATGGTGGTGATGTTGCTGTCGCTACTAGAAGG
GAACGTGGTGAACGGCATGATCGCCCGGCAGATGGTGGACATGCTCGTGGAATCCTCATCCAATGTGGAGATGAT
CCTCAAGTTCTTCGACATGTTCTGAAACTCAAGGACATTGTGGGCTCTGAAGCCTTCCAGGACTACGTAACGGA
TCCCCGTGGCCTCATCTCCAAGAAGGACTTCCAGAAGGCCATGGACAGCCAGAAGCAGTTACAGCGTCCAGAAAT
CCAGTTCTGCTTTCTGCTGCTCCGAAGCGGATGAGAACGAAATGATCAACTGCGAAGAGTTCCGCAACCGCTTCCA
GGAGCCAGCACGCGACATCGGCTTCAACGTGGCGGTGCTGCTGACCAACCTGTGCGAGCATGTGCCGCATGACCC
TCGCCTGCACAACTTCTTGAGCTGGCCGAGAGCATCCTTGAGTACTTCCGCCCCCTACCTGGGCCGCATCGAGAT
CATGGGCGCGCTACGCGCATCGAGCGCATCTACTTCGAGATCTCAGAGACCAACCGCGCCCCAGTGGGAGATGCC
CCAGGTGAAGGAGTCCAAGCGCCAGTTCACTTTCGACGTGGTGAACGAGGGCGGCGAGGCTGAGAAGATGGAGCT
CTTCGTGAGTTTCTGCGAGGACACCATCTTCGAGATGCAGATCGCCGCGCAGATCTCGGAGCCCCGAGGGCGAGCC
GGAGACCGACGAGGACGAGGGCGCGGGCGCGGGGCGGAGGCGGGCGCGGAAGGCGCGGAGGAGGGCGCGGGCGGGCT
CGAGGGCACGGCGGCCACGGCGGGCGGGGGCGGACGGCGCGGGTTGTGGCGGCCGAGGCCGGGCCCTGCGAGG
CCTCAGCTACCGCAGCCTGCGGGCGCGGTGCGGGCGGCTGCGGGCGGCTTACGGCCCCGAGGCGGGCCACCGCAGT
GGCGGGCGCTGCTCTGGGCAGCAGTGACGCGCGCTGGGGCCGCTGGCGCGGGGGCGGGCGGGCGGGCGGCTGGGCCCT
GCTCTGGGGCTCGCTGTTTCGGCGGGCGGCTGGTGAGGGCGCCAAGAAGGTGACGGTGACCGAGCTCCTGGCAGG
CATGCCCCGACCCACAGCGACGAGGTGCACGGCGAGCAGCCGGCCGGGCGGGCGGAGACGCAGACGGCGAGGG
TGCCAGCGAGGGCGCTGGAGACGCCCGCGGAGGGCGCTGGAGACGAGGAGGAGGCGGTGCACGAGGCCGGGCCGGG
CGGTGCCGACGGGGCGGTGGCCGTGACCGATGGGGGCCCTTCCGGCCCCGAAGGGGCTGGCGGTCTCGGGGACAT
GGGGGACACGACGCCTGCGGAACCGCCACACCCGAGGGCTCTCCATCCTCAAGAGGAAATTGGGGGTGGATGG
AGTGGAGGAGGAGCTCCCGCCAGAGCCAGAGCCGAGCCGGAACCAGAGCTGGAGCCGAGAAAGCCGATGCCGA
GAATGGGGAGAAGGAAGAAGTTCCCGAGCCACACAGAGCCCCCAAGAAGCAAGCACCTCCCTACCCCCCTCC
AAAGAAGGAGGAAGCTGGAGGCGAATTCTGGGGAGAACTGGAGGTGCAGAGGGTGAAGTTCTGAACTACCTGTC
CCGGAACTTTTACACCTGCGGTTCTTGCCTCTTCTTGGCATTGTCATCACTTCTGCTGTTTTATAA
GGTCTCAGACTCTCCACAGGGGAGGACGACATGGAAGGCTCAGCTGCTGGGGATGTGTGAGGTGCAGGCTCTGG
TGGCAGCTCTGGCTGGGGCTTGGGGGCCGAGAGGAGGAGGAGGCGATGAGGATGAGAACATGGTGTACTACTT
CCTGGAGGAAAGCACAGGCTACATGGAACCCGCCCTGCGGTGTCTGAGCCTCCTGCATACACTGGTGGCCTTTCT
CTGCATCATTGGCTATAATTGTCTCAAGGTGCCCTTGTCTTAAGCGGGAGAAGGAGCTGGCCCCGAAGCT
GGAGTTTGATGGCCTGTACATCACGGAGCAGCCTGAGGACGATGACGTGAAGGGGCGAGTGGGACCGACTGGTGCT
CAACACGCCGTCTTTCCCTAGCAACTACTGGGACAAGTTTGTCAAGCGCAAGGTCCTGGACAAACATGGGGACAT
CTACGGGCGGGAGCGGATTGCTGAGCTACTGGGCATGGACCTGGCCACACTAGAGATCACAGCCACAATGAGCG

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FIGURE 5403E

CAAGCCCAACCCGCCGCCAGGGCTGCTGACCTGGCTCATGTCCATCGATGTCAAGTACCAGATCTGGAAGTTCGG
GGTCATCTTCACAGACAACTCCTTCCTGTACCTGGGCTGGTATATGGTGATGTCCCTCTTGGGACACTACAACAA
CTTCTTCTTTGCTGCCCATCTCCTGGACATCGCCATGGGGGTCAAGACGCTGCGCACCATCCTGTCCTCTGTAC
CCACAATGGGAAACAGCTGGTGATGACCGTGGGCCTTCTGGCGGTGGTTCGTCTACCTGTACACCGTGGTGGCCTT
CAACTTCTTCCGCAAGTTCTACAACAAGAGCGAGGATGAGGATGAACCTGACATGAAGTGTGATGACATGATGAC
GTGTTACCTGTTTCACATGTACGTGGGTGTCCGGGCTGGCGGAGGCATTGGGGACGAGATCGAGGACCCCGCGGG
TGACGAATACGAGCTCTACAGGGTGGTCTTCGACATCACCTTCTTCTTCTTCGTTCATCGTCATCCTGTTGGCCAT
CATCCAGGGTCTGATCATCGACGCTTTTGGTGAGCTCCGAGACCAACAAGAGCAAGTGAAGGAGGATATGGAGAC
CAAGTGCTTCATCTGTGGAATCGGCAGTGACTACTTTGATACGACACCGCATGGCTTCGAGACTCACACGCTGGA
GGAGCACAACCTGGCCAATTACATGTTTTTCTGATGTATTTGATAAACAAGGATGAGACAGAACACACGGGTCA
GGAGTCTTATGTCTGGAAGATGTACCAAGAGAGATGTTGGGATTCTTCCCAGCTGGTGATTGTTTCCGTAAGCA
GTATGAGGACCAGCTTAGCTGACACACCCCCAGCTGGCCCTCCACCCCCACCTCAAGTGCCTTATTCTCACAGCA
AGCCCCTTAGTCCCCAAGCCCCTCCCCCTAAGGCAGCTGGGGGAGAGGTGACCTAGTAC

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FIGURE 5404

GGAAAGCGTGGCGGCTGCTGCTAGAGCCTTTCCCTTTACCGCACCCAAGGAGCTGGAGCGACAACAACGACGTCTG
TTTCCGTTTTCCACCACCTCTTCCTGTTCCCGTCCTTGAGGACGCCGTGCCGGGTCAAGTGTAGCCTCCAGCCCTG
GTTGTGGAAGGCGACAGAAGTCATGGCGATGTTTGAGCAGATGAGAGCCAACGTGGGCAAGTTGCTCAAGGGTAT
CGACAGGTACAATCCTGAGAACCTGGCCACCCCTGGAGCGCTATGTAGAGACGCAGGCCAAGGAAAATGCCTATGA
TCTGGAAGCCAACCTGGCTGTCTGAAGCTGTACCAGTTCAACCCAGCCTTCTTTTCAGACCACGGTACCCGCCCA
GATCCTGCTGAAGGCCCTCACCAACTTGCCGCACACAGACTTCACCCTGTGCAAGTGCATGATCGACCAGGCACA
TCAAGAAGAACGGCCAATCCGACAGATTTTGTACCTCGGGGACCTGCTGGAGACCTGCCATTTCCAGGCCTTCTG
GCAAGCCCTGGATGAAAACATGGACCTCTTGGAAGGTATAACTGGCTTTGAAGACTCTGTCCGAAAGTTTATCTG
CCATGTTGTGGGTATCACTTACCAGCACATTGACCGCTGGCTGCTGGCCGAGATGCTCGGGGATCTGTCCGGACAG
CCAGCTAAAGGTGTGGATGAGCAAATACGGCTGGAGTGCCGACGAGTCGGGGCAGATCTTCATCTGTAGCCAAGA
AGAGAGCATTAAACCCAAGAACATTGTGGAGAAGATTGACTTTGACAGTGTGTCCAGCATCATGGCCTCCTCCCA
GTAACCTTCAGGTGTTTAATAAAGATGTGTTGACTCAG

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FIGURE 5405

MAMFEQMRANVGKLLKGIDRYNPENLATLERYVETQAKENAYDLEANLAVLKLYQFNPAFFQTTVTAQILLKALT
NLPHTDFTLCKCMIDQAHQEERPIRQILYLGDLETCFQAFWQALDENMDLLEGITGFEDSVRKFIHVVGITY
QHIDRWLLAEMLGDLSDSQLKVWMSKYGWSADESGQIFICSQEESIKPKNIVEKIDFDSVSSIMASSQ

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FIGURE 5406

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG
AATTCGCGGCTTGGTTCCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA
TGCCGCCCTGCATTTCAACCCCGGCTGGACACGTCGGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG
CCGCGAGGAGCGCGGGCCGGGCGTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA
CGGCTTCAAGGCCGTGGTTGGGGACGCCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTGAGCAGAAGCCCAGGCGGGCCCGGGGCC
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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FIGURE 5407

MSNVPHKSSLPEGIRPGTVLRIRGLVPPNASRFHVNLLCGEEQGSDAALHFNPRLDTSEVVFNSKEQGSWGREER
GPGVPFQRGQPFEVLIIASDDGFKAVVGDAQYHHFRHRLPLARVRLVEVGDDVQLDSVRIF

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FIGURE 5408

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG
AATTGCGGGCTTGGTTCCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA
TGCCGCCCTGCATTTCAACCCCCGGCTGGACACGTCGGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG
CCGCGAGGAGCGCGGGCCGGGCGTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA
CGGCTTCAAGGCCGTGGTTGGGGACGCCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTGAGCAGAAGCCCAGGCGGGCCCGGGGCC
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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FIGURE 5409

GTGTTGTACGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCC
CATTCTGGTGCCGTCACGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGT
GACGGGACAGAGCGGTTCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCCATGCGCAGAGCCAGACCCCTCTCACC
CTCTGGAGACCCAGGCAGGGAAGGTGCAGGAGGCTCAGGACTCAGATTCAGACTCTGAGGGAGGAGCCGCTGGTG
GAGAAGCAGACATGGACTTCCTGCGGAACCTATTCTCCCAGACGCTCAGCCTGGGCAGCCAGAAGGAGCGTCTGC
TGGACGAGCTGACCTTGGAAGGGGTGGCCCCGGTACATGCAGAGCGAACGCTGTGCGCAGAGTCATCTGTTTGGTGG
GAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTTCGCTCTCCATCCACCGGCCTCTATGACAACCTAGAGA
AGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACATCCGGAACCCCTTCTTCGCCC
TCGCCAAGGAACTCTATCCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTCATGCGCCTGCTGAAGGACAAGG
GGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGGGCTGGAACAGGAGGACTTGG
TGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCACGAATACCCGCTAAGCTGGA
TGAAGAGAAGATCTTCTCTGAGGTGACGCCCCAAGTGTGAAGACTGTCAGAGCCTGGTGAAGCCTGATATCGTCT
TTTTTGGTGAGAGCCTCCAGCGCGTTTCTTCTCCTGTATGCAGTCAGACTTCCTGAAGGTGGACCTCCTCCTGG
TCATGGGTACCTCCTTGCAGGTGCAGCCCTTTGCCTCCCTCATCAGCAAGGCACCCCTCTCCACCCCTCGCCTGC
TCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTTCCTGGGGATGATTATGGGCCTCGGAGGAGGCATGGACT
TTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGGCTGCCTGGCCCTTGCTGAGC
TCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCCGGAGGGAGCACGCCAGCATAGATGCCAGTCGGGGGCGG
GGGTCCCCAACCCAGCACTTCAGCTTCCCCCAAGAAGTCCCCGCCACCTGCCAAGGACGAGGCCAGGACAACAG
AGAGGGAGAAAACCCAGTGACAGCTGCATCTCCCAGGCGGGATGCCGAGCTCCTCAGGGACAGCTGAGCCCCAAC
CGGGCCTGGCCCCCTCTTAACCAGCAGTTCTTGTCTGGGGAGCTCAGAACATCCCCCAATCTCTTACAGCTCCCT
CCCCAAAACCTGGGGTCCCAGCAACCCTGGCCCCCAACCCAGCAAATCTCTAACACCTCCTAGAGGCCAAGGCTT
AAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCACTCCTGGGCTAAGGAGTAACCTCCCTCATCTCTAACTG
CCCCACGGGGCCAGGGCTACCCAGAACTTTTAACTCTTCCAGGACAGGGAGCTTCGGGCCCCCACTCTGTCTC
CTGCCCCCGGGGGCCTGTGGCTAAGTAAACCATACCTAACCTACCCAGTGTGGGTGTGGGCCTCTGAATATAAC
CCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTCAGCTCCCAAAGTGGGTGGTG
GGCCCCCTTCACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTTATTGGAGACAAATTAAAAAC
AAAAACAACCTAAC

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FIGURE 5410

MAEPDP SHPLETQAGKVQEAQDS DSDSEGG AAGGEADMDFLRNLFSQTL SLGSQKERLLDELTLEGVARYMQSER
CRRVICLVGAGIST SAGIPDFRSPSTGLYDNLEKYHLPYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHY
FMRL LKDKGLLLRCYTQNI DTLERIAGLEQEDLVEAHGTFYTSHCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQ
SLVKPDIVFFGESLPARFFSCMQSDFLKVDLLLVMGTS LQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMI
MGLGGGMDFDSKKAYRDVAWLGECDQGCLALAE LLGWKKELEDLVRREHASIDAQSGAGVPNPST SASPKKSPPP
AKDEARTTEREKPQ

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FIGURE 5411

CGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCCCATTCTG
GTGCCGTACGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGTGACGGGAC
AGAGCGGTTCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCATGGCAGAGCCAGACCGACTCAGATTAGACTC
TGAGGGAGGAGCCGCTGGTGGAGAAGCAGACATGGACTTTCCTGCGGAACCTTATTCTCCAGACGCTCAGCCTGGG
CAGCCAGAAGGAGCGTCTGCTGGACGAGCTGACCTTGGAAGGGGTGGCCCCGGTACATGCAGAGCGAACGCTGTG
CAGAGTCATCTGTTTGGTGGGAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTCGCTCTCCATCCACCGG
CCTCTATGACAACCTAGAGAAGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACA
TCCGGAACCCCTCTTCGCCCTCGCCAAGGAACCTATCCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTCAT
GCGCCTGCTGAAGGACAAGGGGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCCTGGAGCGAATAGCCGG
GCTGGAACAGGAGGACTTGGTGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCA
CGAATACCCGCTAAGCTGGATGAAAGAGAAGATCTTCTCTGAGGTGACGCCCAAGTGTGAAGACTGTGAGAGCCT
GGTGAAGCCTGATATCGTCTTTTTTGGTGAGAGCCTCCAGCGCGTTTCTTCTCCTGTATGCAGTCAGACTTCCT
GAAGGTGGACCTCCTCCTGGTCATGGGTACCTCCTTGACGGTGACGCCCTTGCCTCCCTCATCAGCAAGGCACC
CCTCTCCACCCCTCGCCTGCTCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTCCCTGGGGATGATTATGGG
CCTCGGAGGAGGCATGGACTTTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGG
CTGCCTGGCCCTTGCTGAGCTCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCGGGAGGGAGCACGCCAGCAT
AGATGCCCAGTCGGGGGCGGGGGTCCCCAACCCACGCACTTCAGCTTCCCCCAAGAAGTCCCCGCCACCTGCCAA
GGACGAGGCCAGGACAACAGAGAGGGAGAAACCCAGTGCACAGCTGCATCTCCAGGCGGGATGCCGAGCTCCTC
AGGGACAGCTGAGCCCCAACCGGGCCTGGCCCCCTCTTAACCAGCAGTTCTTGTCTGGGGAGCTCAGAACATCCC
CCAATCTCTTACAGCTCCCTCCCCAAAACCTGGGGTCCCAGCAACCCCTGGCCCCCAACCCAGCAAATCTCTAACA
CCTCCTAGAGGCCAAGGCTTAAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCCTCCTGGGCTAAGGAGTA
ACCTCCCTCATCTCTAACTGCCCCACGGGGCCAGGGCTACCCCAAGAACTTTTAACTCTTCCAGGACAGGGAGCT
TCGGGCCCCCACTCTGTCTCCTGCCCCCGGGGGCCTGTGGCTAAGTAAACCATACTAACCTACCCAGTGTGGG
TGTGGGCTCTGAATATAACCCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTC
AGTCCCCAAAGTGGGTGGTGGGCCCCCTTACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTT
ATTGGAGACAAATTAAAAACAAAACAATAACAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5412

MDFLRNLF SQTLSLGSQKERLLDELTLEGVARYMQSERCRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHL
PYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHYFMRLKDKGLLLRCYTQNIDTLERIAGLEQEDLVEAH
GTFYTSHCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQSLVKPDIVFFGESLPARFFSCMQSDFLKVDLLLVMGT
SLQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMIMGLGGGMDFD SKKAYRDVAWLGECDQGCLALAE LLGW
KKELEDLVRREHASIDAQSGAGV PNPSTSASPKKSPPPAKDEARTTEREKPQ

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FIGURE 5413

TGAAGAGGCGGGACACAGACGACGATTGGGCGACGAAGGACTCTATCGCGGTCAACTTTCCTCAGGATCTGATTG
GCTCGTCACGGTCAGGTTTCGCTGCCTTGCAATTGGTCTAAACGCGGAGTGGGCGGGACGAAGTGCCGCCTTGTC
CCGGTCCAAGATGGCTGCGTCCATGGCGCGGCGCTTGTGGCCTTTGCTGACTCGTCGGGGGTTCCGGCCCCGGGG
AGGCTGCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAACGAAACCGGAACCTCCTGTACGAGTA
TGCGCGCGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCCAGAAGAGGCCGCACA
CGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCGATCATCTCGACATGGCAGGAGCTGAG
GCAGCTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGTGCGGGCCCTGCTGGC
AAACCAGGACAGTGGTGAAGTGCAGCAGGACCCCAAGTACCAGGGTCTGCGGGCACGTGGCCGGGAGATCCGGAA
GGAGCTTGTTACCTGTACCCCAGGGAGGCCAGCTTGAGGAGCAGTTCTACCTGCAGGCGCTGAAGCTGCCCAA
CCAGACCCACCCAGACGTGCCCGTCGGGGATGAGAGCCAGGCTCGAGTGCTCCACATGGTCGGAGACAAGCCAGT
TTTCTCCTTCCAACCTCGGGGCCACCTGGAAATTGGCGAGAACTCGACATCATCCGTGAGAAGCGCCTGTCCCA
CGTGCTTGCCACCGGTCTTATTACCTGCGCGGGGCTGGAGCCCTCCTGCAGCACGGCCTGGTCAACTTCACATT
CAACAAGCTTCTCCGCCGGGGCTTACCCCCATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTTTGAAGGCTG
TGGGATGACACCAAATGCCAACCCTATCCCAAATTTACAACATCGACCCTGCCCGCTTCAAAGATCTCAACCTGGC
TGGAACAGCGGAGGTGGGGCTTGACAGGCTACTTCATGGACCACACCGTGGCCTTCAGGGACCTGCCAGTCAGGAT
GGTTTGCTCCAGCACCTGCTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGCTGTATCGAGTACACCA
CTTACCAAGGTGGAGATGTTTGGGGTGACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGAGTTCCT
GTCCCTTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACTTCCGGGTCTTGATATGCCCACCCAGAAGTGGG
CCTCCCCGCTACCGCAAGTTTGACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTGGAGAGGTACCCAGTGC
TTCCAAGTGCACAGACTTCCAGAGCCGCCGCTCCACATCATGTTCCAGACCGAGGCTGGGGAGCTGCAGTTTGC
CCACACGGTGAACGCCACCGCCTGTGCTGTCCCCGCTTCTCATCGCGCTCCTGGAGAGTAACCAGCAGAAGGA
CGGCTCAGTGCTCGTGCCCCCTGCCCTCCAGTCTACCTCGGCACTGATCGGATCACAGCCCCCTACCCACGTGCC
TCTCCAGTACATCGGCCCCAACCAGCCCCGGAAGCCTGGGCTGCCTGGCCAGCCTGCTGTAAGCTAAGAACCCAC
CCACAGCAGCCCTCGGGGGTGTCACTGCTTCTGGAGTTCAGGAGACCCCGGACACCTGGGACCTGTGTTGCTGA
GCCCGTCTGACATCTGTGTTCTTCTGTCAGCTCCACGCCCGGGCCCCCTGGACCACGGGGTCCACCTCTCCTCT
GTCCTTGCTGCCTCAGAGTCAGTCACTGACCCTGTTATCATTGAGGGTCCCAGTGGGAAGCAGGACGTCTGGGCT
TTACGGTTCTAGGGACAGGAGAAGCAGAGGAAGAGGCTTCCATCCCTCCTTCTTCTTCTCCTACAGTGCTGA
GCAAAAAGTCCCCAATAAATGGTCAGGACAAAAAAAAAAAAA

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FIGURE 5414

MAASMARRLWPLLTRRGFRPRGGCISNDSPRRSFTTEKRNRLLYEYAREGYALPQLDIERFCACPEEAAHALE
LRKGELRSADLPAAISTWQELRQLQEQIRSLEEEKAAVTEAVRALLANQDSGEVQQDPKYQGLRARGREIRKELV
HLYPREAQLEEQFYLAALKLPNQTHPDVPVGDESQARVLHMGDKPVFSFQPRGHLEIGEKLDIIRQKRLSHVSG
HRSYYLRGAGALLQHGLVNFTFNKLLRRGFTPMTPDLLRGAVFEGCGMTPNANPSQIYNIDPARFKDLNLAGTA
EVGLAGYFMDHTVAFRDLEVRMVCSSSTCYRAETNTGQEPRGLYRVHHFTKVEMFGVTGPGLEQSSQLLEEFSLQ
MEILTELGLHFRVLDMPQTQELGLPAYRKFDIEAWMPGRGRFGEVTSASNCTDFQSRRLHIMFQTEAGELQFAHTV
NATACAVPRLLIALLESNQKDGSVLVPALQSYLGTDRITAPTHVPLQYIGPNQPRKPGLPQGPAVS

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FIGURE 5415

AGCTGGATTACGCGTGTCCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCCAGTTCTTCCTGCGTGCGGGCGAGAGTGGTTGGGCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGTATTTCT
CTTTGATTTAAGCCAGAAAGTCCTGAGAGCGGATCGGGGAGCATTTCGCGATCGGTCACTTTTTCTCCTTTCTG
AGTCTCTTATCCCCTACACAGGGACGGCCCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACA
CGTCCCTAACTTGTGGCCAGCTCTGGTTCCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGC
ACCGCCTGGGGCCCCCAAGCGCCGCTCGGAAGCTGGGGCCCCACGGAAGGCCGCGCAGCTGAAGGGTGTGG
TCCTGTGCACGTTTACCCGCAAGCCGAAGAAGCCCAACTCAGCCAATCGCAAGTGCTGTGAGTGC GGCTCAGCA
CTGGCCGCGAGGCCGTCTGCTTCATCCCTGGGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGG
GCGGCCGCACCCAGGACCTGCCAGGCGTCAAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGA
AGAAGTGAAGGCTGGGGGCACAGTGGGCTGGGCGCCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGG
GTCTCCGATGCTGGCCTTTGCGCCTCTAGAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCCTCTTCCATC
AGGACCACTATTAAGCCATAGGAGTCCTGGGGGTGCAAAGGGTGCCCCCTCTGTCAACACCCTTGGCTCCTGTGTT
TAGAGGGGTGGCCTGAAGGACCTTTTCTGCTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGGTTTTAAT
AAACAGACCCTGGCGCTTGTGATGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5416

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHR LGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPNS
ANRKKCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTVVVRGKYDCGHVQKK

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FIGURE 5417

AGCTGGATTGAGCGTGTCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCAGTTCTTCCTGCGTGCGGGCGAGAGTGGTTGGGGCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGGACGGC
CCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACACGTCCCTAACTTGTGGCCCAGCTCTGGTT
CCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGCACCGCCTGGGGCCCCCAAGCGGCCGCCT
CGGAAGCTGGGCCCCACGGAAGGCCGGCCGCAGCTGAAGGGTGTGGTCCCTGTGCACGTTTACCCGCAAGCCGAAG
AAGCCCAACTCAGCCAATCGCAAGTGCTGTGAGTGCGGCTCAGCACTGGCCGCGAGGCCGTCTGCTTCATCCCT
GGGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGGGCGGCCGCACCCAGGACCTGCCAGGCGTC
AAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGAAGAAGTGACGGCTGGGGGCACAGTGGGCT
GGGCGCCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGGGTCCTCCGATGCTGGCCTTTGCGCCTCTA
GAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCCTCTTCCATCAGGACCCTATTAAGCCATAGGAGTCCTG
GGGGTGCAAAGGGTGCCCTCTGTCAACACCCTTGGCTCCTGTGTTTAGAGGGGTGGCCTGAAGGACCTTTTCTG
CTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGTTTTAATAAACAGACCCTGGCGCTTGTGATGTAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 5418

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHLGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPNS
ANRKCCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTVVVRGKYDCGHVQKK

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FIGURE 5419

GGGGAGCTTGCGGCACAGCTAGGGCATCCCGGCGAGGAGCGCCGCCAGGCCCCGGGCCACAGCCGGGCCTGGCGG
GGGGACCATGGGCGCCTCGGTCTCCAGGGGCGGGCCGCCCCGGGTCCCCGCGCCGGAGCCGGAACCCGAAGAGGC
GCTGGACCTGAGCCAACTACCCCCAGAGCTGCTTCTGGTGGTGTGAGCCACGTCCCCCGCGCACGCTGCTCGG
GCGCTGCCGCCAAGTGTGCCGGGGCTGGCGAGCCCTGGTGGACGGCCAGGCCCTGTGGCTGCTGATCCTGGCCCG
CGACCACGGCGCCACCGGCCGCGCGCTGCTGCACCTCGCCCGCAGCTGCCAGTCTCCCGCCCGTAACGCCAGGCC
TTGCCCCCTGGGCGCCTTCTGCGCGCGCAGACCCATCGGACGCAACCTTATTCGCAACCCCTGCGGCCAAGAAGG
CCTCCGAAAGTGGATGGTGCAACACGGTGGGGACGGCTGGGTGGTGGAGGAAAAACAGGACAACCGTGCCTGGGGC
CCCTTCTCAGACGTGCTTCGTGACTTCATTTCAGCTGGTGGTGGCAAGAAGCAGGTCTTGGACCTAGAGGAGGAGGG
TCTGTGGCCAGAACTGCTGGATAGTGGCAGGATTGAGATTTGTGTCTCTGACTGGTGGGGAGCCCCGACACGACAG
CGGCTGTATGTACAGACTCCTCGTCCAACCTTCTAGACGCCAACCCAGACTGTTCTAGATAAATTCTCTGTGTGCC
TGATCCCATCCCGCAGTGGAACAACAATGCCTGCCTTCACGTACCCACGTGTTCTCCAACATCAAGATGGGCGT
CCGCTTTGTGTCTTTTGAACACCGGGGCCAGGACACACAGTTCTGGGCTGGCCACTATGGAGCCCGTGTGACCAA
CTCCAGTGTGATCGTGCAGTCCGTCTGTCCTAGTCCAGCACTACCCCTTCTTGCAAGACAGCCTGACTGTGCCTT
CCAGGGCCTGGGACCAATTGGCTGGGACCCCTCATTAAACCAACCAAGCACTTGACCTCCCTGGCATACTGAGAAT
TCCTGGGTCCAATCAAAGGCCCTGACGGGCCCTGTCTTCAGGTTCTAGAACTACCAGAAGAAGCTTCTTCCATC
TTATCTACCTACTGCAGCTGCTGCTTTGCGGGGGGGCCCTACTGTACTGAGGGGAAACCCACAAGTGAGCATGGG
GGAATGCCCATCCTGGAGAAGAATTCTTGCCCTCCCCTCTCTTCTCCTCCCAACCAAAACCCTCCGATCCAGCCC
CAGGCCCCCTCTGTACCATCCCTCCCCTCCGCACCACTGACCTCTGTCTCCTGTTGTTTCTGCCACAGGGACTT
CCTTGGTCCCTTCAGGGAAGCCCTCAACTCATCTCTGAACCTAGAATCTCATCCTTAGGGCTCAGAGAGTCCCAG
CCCTAAGGGTGTGAACCTCACCTCCTGGGGCTTCCGAGCTACAGGGCTGGGACCAGGTCATGCAGCTGAAAGTCT
ACGTTAAAAAAAAAAGTTTGGGCCAGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCA
GGCGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATCCA
AAAAATTAGCCGGGCTTGGTGGTGTGCACCTGTAATTCCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGA
GCCCCGGAGGCAGAGGCTGCAGTGAACCAAGATCATGCCACTGCACTCCAGCCTGGGCAACACAGCGAGACTCCG
TCTCAAAAAGAAAAAGTTTGGATCAGGCAGGGTGGCTCACACCTGTAATCCCTGCACTTTGGGAGGCCAAGGTGG
GAGGATCAGTTGAGCCCCAGAGTTCAAGACCAGCCTGGGCAATGTAGTAAGACCCCCATCGCTACAAAAAATACA
AAAGTTAGCCAGGTACAGTAGTACACACCTGTAGTCCAAGCTACTTGGGAGGCTGAAGTGGGAGGATCATTTGTG
CCCAGGTTGAGGCTATAGTGAGCCATGATCATAACCACTGCACTCCAGCCTGGGTGACAGAGCGAGACCCTGTCTC
AAAAAAAAAAAAAGAAATTTGGAGATGGTTCTGCCACTCTGGTTTCTCTGAAAAAACGAGGTAATTCCCTGAGCCC
AACCTGATCCTCAAGGACCTGTAATTGTGTGGTATTTAAATTAATAACATTATTTTTATTTTACTTTTTT
TCAACAGTAAGAATAATATATCAGCAGCATGTATCTGCCAATCATATGTAATAAATTTCTTATTTTGGC

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FIGURE 5420

MGASVSRGRAARVPAPEPEPEEALDLSQLPPELLLVVLSHVPPRTLLGRCRQVCRGWRALVDGQALWLLILARDH
GATGRALLHLARSCQSPARNARPCPLGRFCARRPIGRNLI RNPCGOEGLRKWMVQHGGDGWVVEENRTTVPGAPS
QTCFVTSFSWCCKKQVLDLEEEGLWPELLDSGRIEICVSDWWGARHDSGCMYRLLVQLLDANQTVLDKFS AVDP
IPQWNNNACLHVTHVFSNIKMGVRFVSFEHRGQDTQFWAGHYGARVTNSSVIVRVRLS

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FIGURE 5421

[illegible]

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FIGURE 5422

MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDPACITSIQPGAPKTIVRGSK
GAKDGALTLLLDEFENMSVTRSNSLRDSPPPPARARQENGMPPEEPATTARGGPGKAGSRGRFAGHSEAGGGSGD
RRRAGPEKRPKSSREGSGGPQESSRDKRPLSGPDVGTPQPAGLASGAKLAAGRPFNTYPRADTDHPSRGAQGEPH
DVAPNGPSAGGLAIPQSSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPACTPAAPAVEGPPGPRSPQREPQRVS
HEQFRAALQLVVDPGDPRSYLDNFIKIGEGSTGIVCIATVRSSGKLVAVKKMDLRKQQRRELLFNEVVIMRDYQH
ENVVEMYNSYLVGDELWVMEFLEGGALTDIVTHTRMNEEQIAAVCLAVLQALSVLHAQGVHRDIKSDSILLTH
DGRVKLSDFGFCAQVSKEVPRRKSLVGTPYWMAPELISRLPYGPEVDIWSLGIMVIEMVDGEPPYFNEPPLKAMK
MIRDNLPPRLKNLHKVSPSLKGFDRLLVRDPAQRATAAELLKHPFLAKAGPPASIVPLMRQNRTR

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FIGURE 5423

AGTTGGTGGAACCGGAGCTTCGAGTCCGTCCCCGGTGCTGCCTGCGCGTTACCTGAGTCTCGCTGGAGCTCTTC
TCGCCCCGCCACCTCATCTCAACCCACTTTCCGCGGGGAGCGGCGCCAAGCTGGGCCTTCCTCGGATCAGGCGTC
CCCTGAAGTCGGCAGCCCCCTCTGCGTCCCCCTTCGGTCCCGCTAGGACCCCGTCCGGGCTGCCGTGCGCTCGTC
GCT**ATG**GCGCCCAACATCCAGACCCAGGCCCAGCGGGAGGATGGCCACAGGCCCAATTCCCACCGGACTCTGCCT
GAGAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCCCCCTTCGACCCCAAGTTTCATC
ACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGAAAACAGCACAAACATGACCTC
CTGACTGAGCCAGACCTGGGGGTCACCATCGATCTCATCAATCCTGACACCTACCGCATCGACCCCAATGTTCTT
CTAGATCCAGCTGATGAGAACTTTTGGAAGAGGAGATTAGGCCCCCACCAGCTCCAAGAGATCCCAGCAGCAC
GCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACCGTTATGGCATCTCCAATGAG
AAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAATATACAAAGACAGGGATAGC
CAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGCATTACAGCAAACCCCGAGTC
ACACCGGTGGAGGTTCATGCCTGTCTTCCAGACTTTAAGATGTGGATCAATCCATGTGCTCAGGTGATCTTTGAC
TCAGACCCAGCCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCTCAGGCCATGATTAGGGGCATG
ATGGATGAGGAAGGGAACCAAGTTTGTGGCCTATTTCTGCTGTAGAAAGAGACGTTGAAGAAACGAAAGCGGGAC
CAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTCGGGAGTACAACCTGGAACGTG
AAGAACAAAGCTAGCAAGGGCTATGAGGAAACTACTTCTTCATCTTCCGAGAGGGTGACGGGGTTTACTACAAT
GAGTTGGAACCAAGGTTCCGCTTAGTAAGCGCCGGGCCAAGGCTGGGGTTCAGTCAGGCACCAACGCCCTGCTT
GTGGTCAAACATCGGGACATGAATGAGAAGGAAGTGAAGCTCAGGAGGCACGGAAGGCCCAGCTAGAAAACAC
GAACCGGAGGAGGAAGAGGAAGAGGAGATGGAGACAGAAGAGAAAGAAGCTGGGGGCTCAGATGAGGAGCAGGAG
AAGGGCAGCAGCAGTGAGAAGGAGGGCAGTGAAGATGAGCACTCGGGCAGCGAGAGTGAACGGGAGGAAGGTGAC
AGGGACGAGGCCAGTGACAAGAGTGGCAGTGGTGAGGACGAGAGCAGCGAGGATGAGGCCCGGGCTGCCCGTGAC
AAAGAGGAGATCTTTGGCAGTGATGCTGATTCTGAGGACGATGCCGACTCTGATGATGAGGACAGAGGACAGGCC
CAAGGTGGCAGTGACAATGATTTCAGACAGCGGCAGCAATGGGGGTGGCCAGCGGAGCCGGAGCCACAGCCGCAGC
GCCAGTCCCTTCCCCAGTGGCAGCGAGCACTCGGCCAGGAGGATGGCAGTGAAGCTGCAGCTTCTGATTCCAGT
GAAGCTGATAGTGACAGTGACT**TGA**GTCCCAGGGCATTAGGGCTGGTTTCAGACACCATTATTGTGAGCAGCAAAG
CACTTTTCTAGTGGTCTGTTTGTGAGCCTTTCACTTGTTTGTTCACCCACCCCAACCTTTGCTGTTAATAAAGT
CAACTTCTCTTTA

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FIGURE 5424

MAPTIQTQAQREDGHRPNSHRTLPERSGVVCrvKYCNSLPDIPFDPKFITYPFDQNRfVQYKATSLEKQHKHDL
TEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEEIQAPTSSKRSQQHAKVVPWMrKTEYISTEFNRYGISNEK
PEVKIGVSVKQQFTEEEIYKDRDSQITAIEKTFEDAQKSISQHYSKPRVTPVEVMPVFPDFKMWINPCAQVIFDS
DPAPKDTSGAAALEMMSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRdQEEEMDYAPDDVYDYKIAREYNWNVK
NKASKGYEENYFFIFREGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKELEAQEARKAQLNHE
PEEEEEEMETEEKEAGGSDEEQEKGSSEKEGSEDEHSGSESEREEGDRDEASDKSGSGEDESEDEARAARDK
EEIFGSDADSEDDADSDDEDRGQAQGGSDNDSDSGSNGGGQRSRSHSRsasPFPsgSEhsAQEDGSEAAASDSSE
ADSDSD

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FIGURE 5425

AGGCCCAGCGGGAGGATGGCCACAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCC
CCTTCGACCCCAAGTTCATCACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGA
AACAGCACAAACATGACCTCCTGACTGAGCCAGACCTGGGGGTCACCATCGATCTCATCAATCCTGACACCTACC
GCATCGACCCCAATGTTCTTCTAGATCCAGCTGATGAGAACTTTTGGAAGAGGAGATTCAGGCCCCCACCAGCT
CCAAGAGATCCCAGCAGCACGCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACC
GTTATGGCATCTCCAATGAGAAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAA
TATACAAAGACAGGGATAGCCAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGC
ATTACAGCAAACCCCGAGTCACACCGGTGGAGGTTCATGCCTGTCTTCCCAGACTTTAAGATGTGGATCAATCCAT
GTGCTCAGGTGATCTTTGACTCAGACCCAGCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCTC
AGGCCATGATTAGGGGCATGATGGATGAGGAAGGGAACCAGTTTGTGGCCTATTTCCCTGCCTGTAGAAGAGACGT
TGAAGAAACGAAAGCGGGACCAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTC
GGGAGTACAACCTGGAACGTGAAGAACAAAGCTAGCAAGGGCTATGAGGAAAATAATACTTCATCTTC

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FIGURE 5426

TTTTCCGGTTGCGGCGCCGCGCGGTGAGGTTGTCTAGTCCACGCTCGGAGCCATGCCGTCCAAGGGCCCGCTGCA
GTCTGTGCAGGTCTTCGGACGCAAGAAGACAGCGACAGCTGTGGCGCACTGCAAACGCGGCAATGGTCTCATCAA
GGTGAACGGGCGGCCCCCTGGAGATGATTGAGCCGCGCACGCTACAGTACAAGCTGCTGGAGCCAGTTCTGCTTCT
CGGCAAGGAGCGATTTGCTGGTGTAGACATCCGTGTCCGTGTAAAGGGTGGTGGTCACGTGGCCCAGATTTATGC
TATCCGTCAGTCCATCTCCAAAGCCCTGGTGGCCTATTACCAGAAATATGTGGATGAGGCTTCCAAGAAGGAGAT
CAAAGACATCCTCATCCAGTATGACCGGACCCTGCTGGTAGCTGACCCTCGTCGCTGCGAGTCCAAAAAGTTTGG
AGGCCCTGGTGCCCGCGCTCGCTACCAGAAATCCTACCGATTAAGCCCATCGTGACTCAAACTCACTTGTATAAT
AAACAGTTTTTTGAGGGATTTTAAAGTTTCAAAAAAAAAAAAAAAAAA

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FIGURE 5427

MPSKGPLQSVQVFGRKKTATAVAHCKRGNGLIKVNRPLEMIEPRTLQYKLLEPVLLLGKERFAGVDIRVRVKGG
GHVAQIYAIRQSISKALVAYYQKYVDEASKKEIKDILIQYDRTLLVADPRRCESKKFGGPGARARYQKSYR

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FIGURE 5428A

AGAGAACAGATTTCGGAAGCTGGGGAGGTCTAGCATGTGGCGTAGGAGGGGGTCTCACTCCGCTTCGCGATTGCC
AAAACGAGCCTGCCGGAAGCGCCCTAAGGGGTTTTCTTCTCCAGGGAACCAGCGGGGAACTGAGGCTCGGGGT
GGAGCGCAGGATTGTGGGACGCGCCAAGACTGCTGTCTTTCCAGCAGCAGCGGAAGATGTCGGACAGCGAGGAC
AGCAACTTTTCCGAGGAGGAGGACAGCGAGCGCAGCAGTGACGGCGAGGAGGCCGAGGTAGACGAAGAGCGGGCG
AGTGCAGCGGGCAGTGAGAAAGAAGAAGAGCCTGAGGACGAAGAGGAGGAGGAAGAGGAGGAGGAATATGATGAG
GAAGAGGAGGAAGAAGATGATGACCGACCCCCAAGAAACCCGCCATGGAGGCTTCATTCTGGACGAGGCTGAT
GTTGACGATGAGTATGAGGACGAGGACAGTGGGAGGATGGAGCAGAGGACATTCTAGAGAAAGAAGAGATTGAA
GCCTCCAATATCGATAATGTTGTCCTGGATGAAGATCGTTCTGGGGCTCGCCGCTGCAAAACCTCTGGAGGGAC
CAGCGAGAAGAAGAACTGGGCGAGTATTACATGAAGAAATACGCCAAGTCATCTGTGGGAGAGACGGTGTATGGA
GGATCTGATGAGCTCTCAGACGACATCACCCAGCAGCAGCTGCTCCAGGAGTCAAGGATCCCAATCTGTGGACT
GTCAAATGTAAGATTGGGGAGGAACGGGGCCACGGCCATTTCTTTGATGCGCAAGTTCATTGCCTACCAGTTCACA
GACACGCCCCCTGCAGATCAAGTCAGTAGTGGCACCAGAGCATGTGAAGGGCTACATCTACGTGGAGGCCTACAAG
CAGACCCACGTGAAGCAGGCCATTGAGGGGGTGGGCAACCTGCGGCTTGGCTACTGGAACCAGCAGATGGTGCCC
ATCAAGGAGATGACAGACGTGCTCAAAGTGGTGAAGGAGGTGGCCAACCTGAAACCAAAGTCTGGGTCCGCCCTC
AAGCGGGGCATCTACAAGGATGACATTGCTCAGGTGGACTACGTGGAGCCAGCCAGAACACCATCTCCCTGAAG
ATGATCCACGCATCGACTACGATCGCATCAAGGCCCGCATGAGCTTGAAAGACTGGTTTGCCAAAAGGAAGAAG
TTTAAGCGGCCTCCACAGAGGCTGTTTGATGCTGAGAAGATCAGGTCCCTGGGGGGTGATGTTGCCTCTGATGGT
GACTTCCTCATCTTTGAGGGGAACCGTTACAGCCGGAAGGGCTTTCTGTTCAAGAGCTTCGCCATGTCTGCTGTG
ATCACGGAGGGTGTGAAGCCAACACTCTCTGAGCTGGAAAAGTTTGAGGACCAGCCAGAGGGCATTGACCTGGAG
GTGGTGACTGAGAGCACAGGGAAGGAGCGGGAGCACAACCTTCAAACCTGGGGACAACGTGGAGGTCTGTGAGGGT
GAGCTCATCAACCTGCAGGGCAAGATCCTCAGCGTGGATGGCAACAAGATCACCATCATGCCAAAGCATGAGGAC
CTCAAGGACATGTTGGAGTTCCAGGCCAGGAACCTAGAAAATACTTCAAGATGGGGGACCACGTGAAGGTGATT
GCTGGCCGATTTCGAGGGCGACACAGGCCTCATTGTGCGGGTGGAGGAGAATTTTCGTTATCCTGTTCTCTGACCTC
ACCATGCATGAGCTGAAGGTGCTCCCCCGGGACCTGCAGCTCTGCTCAGAGACAGCATCAGGTGTGGATGTTGGG
GGCCAGCATGAATGGGGCGAGCTGGTGCAGCTGGATCCCCAGACTGTGGGTGTATCGTGCGACTAGAACGGGAG
ACCTTCCAGGTGCTGAACATGTACGGGAAGGTGGTGACTGTGAGACATCAGGCTGTGACCCGGAAGAAGGACAAC
CGCTTTGCTGTGGCCTTGACTCAGAGCAGAACAACATCCATGTGAAAGACATCGTTAAGGTCATTGATGGCCCC
CACTCAGGCCGAGAAGGGGAGATTGCCATCTCTTCCGAAGCTTCGCCCTTCTACATTGCAAGAAACTGGTGGAG
AACGGGGGCATGTTTGTCTGCAAGACCCGCCACCTGGTGTGCTGGGGGCTCAAAGCCCCGTGATGTGACCAAC
TTCACCGTGGGTGGCTTTGCGCCTATGAGTCCCCGGATCAGCAGCCCCATGCACCCAGTGCTGGAGGTCAGCGT
GGCGGCTTTGGTAGCCAGGTGGCGGCAGTGGTGGCATGAGCAGGGGCCGGGGCCGGAGGGACAACGAACCTCATC
GGCCAGACCGTGCATCTCTCCAGGGGCCCTACAAAGGCTACATCGGTGTGGTGAAAGATGCCACAGAGTCCACG
GCCCCGTGTGGAGCTGCACCTCCACCTGCCAGACCATCTCTGTGGACCGTCAGCGGCTCACACGGTGGGCTCACGG
CGCCCCGGGCGGCATGACCTCGACCTATGGGAGGACGCCCATGTATGGCTCCCAGACGCCCATGTATGGCTCTGGC
TCCCGAACACCCATGTACGGCTCACAGACACCCCTCCAGGATGGTAGCCGCACCCACACTACGGCTCACAGACG
CCCCTGCATGATGGCAGCCGCACTCCTGCCAGAGTGGGGCTGGGACCCCAACAACCCCAACACGCCGTACCGG
GCTGAGGAAGAATATGAGTATGCTTTTCGATGATGAGCCACCCCGTCCCCGCAGGCCTATGGGGGAACCCCAAT
CCCCAAACACCTGGCTACCCAGACCCCTCGTCCCCACAGGTCAACCCACAATAACAACCCGCAGACGCCAGGGACG
CCGGCCATGTACAACACAGACCAAGTTCTCTCCCTATGCTGCCCCCTCCCCACAAGGTTCTTACCAGCCCAGCCCC
AGCCCCCAGAGCTACCACAGGTGGCGCCAAGCCCAGCAGGCTACCAGAATACCCACTCCCCAGCCAGCTACCAC
CCTACACCGTCGCCCATGGCCTATCAGGCTAGCCCCAGCCGAGCCCCGTTGGCTACAGTCTTATGACACCTGGA
GCTCCCTCCCTGGTGGCTACAACCCACACAGCCAGGCTCAGGCATCGAGCAGAAGTCCAGCGACTGGGTAACC
ACTGACATTACAGGTGAAGGTGCGGGACACCTACCTGGATACACAGGTGGTGGGACAGACAGGTGTCTCCGCAGT
GTCACGGGGGGCATGTGCTCTGTGTACCTGAAGGACAGTGAGAAGGTTGTGAGCATTTCAGTGAGCACCTGGAG
CCTATCACCCCCACCAAGAACAACAAGGTGAAAGTGATCCTGGGCGAGGATCGGGAAGCCACGGGCGTCTTACTG
AGCATTGATGGTGAGGATGGCATTGTCCGTATGGACCTTGATGAGCAGCTCAAGATCCTCAACCTCCGCTTCTTG
GGGAAGCTCCTGGAAGCCTGAAGCAGGACAGGCGCGGTGGACTTCGTGCGATGAAGAGTGATCCTCCTTCTTCCC
TGGCCCTTGGCTGTGACACAAGATCCTCCTGCAGGGCTAGGCGGATTGTTCTGGATTTCCTTTTGTTCCTTT

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FIGURE 5428B

TAGTTTTCCATCTTTTCCCTCCCTGGTGCTCATTGGAATCTGAGTAGAGTCTGGGGGAGGGTCCCCACCTTCCTG
TACCTCCTCCCCACAGCTTGCTTTTGTGTACCGTCTTCAATAAAAAAGAAGCTGTTTGGTCTAAAAAAAAAAAA
AAAAAAAAAAAA

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FIGURE 5429

MSDSEDSNFSEEDSERSSDGEEAEVDEERRSAAGSEKEEPEDEEEEEEEEEEEYDEEEEEEDDDRPPKKPRHGGF
ILDEADVDEYEDQWEDGAEDILEKEEIEASNIDNVVLDEDRSGARRLQNLWRDQREEELGEYYMKKYAKSSV
GETVYGGSDLSDDITQQQLLPGVKDPNLWTVKCKIGEERATAISLMRKFIAEQFTDTPLOIKSVVAPEHVKGYI
YVEAYKQTHVKQAIEGVGNLRLGYWNQOMVPIKEMTDVLKVVEVANLKP KSWVRLKRGYIKDDIAQVDYVEPSQ
NTISLKMIPRIDYDRIKARMSLKDWFAKRKKFKRPPQRLFDAEKIRSLGGDVASDGDFLIFEGNRYSRKGFLFKS
FAMSAVITEGVKPTLSELEKFEDQPEGIDLEVVTSTGKEREHNFQPGDNVEVCEGELINLQGKILSVDGNKITI
MPKHEDLKDMLEFPAQELRKYFKMGDHVKVIAGRFEQDGLIVRVEENFVILFSDLTMHELKVLPRDLQLCSETA
SGVDVGGQHEWGEVLVQLDPQTVGVIVRLERETFQVLNMYGKVVTVRHQAVTRKKDNRFVAVALDSEQNNIHVKDIV
KVIDGPHSGREGEIRHLFRSFAFLHCKKLVENGGMFVCKTRHLVLAGGSKPRDVTNFTVGGFAPMSPRISSPMHP
SAGGQRGGFGSPGGGSGGMSRGRGRRDNELIGQTVRISQGPYKGYIGVVKDATESTARVELHSTCQTISVDRQRL
TTVGSRRPGGMTSTYGRTPMYGSQTPMYGSGSRTPMYGSQTPLODGSRTPHYGSQTPLDGSRTPAQSGAWDPNN
PNTPSRAEEYEFYAFDDEPTPSPQAYGGTPNPQTPGYDPDPSSPQVNPQYNPQTPGTPAMYNTDQFSPYAAPSPQG
SYQPSPPSQSYHQVAPSPAGYQNTHSPASYHPTSPMAYQASPPSPVGYSPMTPGAPSPGGYNPHTPGSGIEQN
SSDWVTTDIQVKVRDQTYLDTQVVGQTVGIRSVTGGMCSVYLKDSEKVVSSISSEHLEPITPTKNNKVVLGEDRE
ATGVLLSIDGEDGIVRMDLDEQLKILNLRFLGKLLEA

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FIGURE 5430

CTCAGAGGCTGGAGGGATCCTCCGTATGCTGAACGCTGGTCCCCTGGGCCCCCTTTATTTCTTTCTCTATACTTT
GTTTCTGTGTCTTTTTCTCTTCCAAAGTCTCTCGTTCCACCTAACGAGAAACACCCACAGGTGTGGAGGGGCAAC
CCATCCCTTCAGACAATTGGGAGGTGAGGGCCGATTGCCTTACACGGTGAGACAAGCGGCCTGACTCGTGACTAT
TTTTTGGACAAATCAGGCAGCCACTGACTCCCTTCATTATGGCCTCAGCTTTATCTCTGGGCAATAAGTGTGAT
CCCTTCTTCTGCTGCGTCCCTTTCAGGGGCGGTGGCGCTCTGCAAGGCCCAAGGGGGCGTGGTCCAGATGACTTT
GAATCCCAGTTGTTCGCCCCCAGGGTCAGCCAGGAGACTAGTCAGAAGCAAACGCGCCTGCGGCAATCCGCCCGAT
GCCTTTGGTCTCTCTCGGGCTTCCGTCCACCCGCCCTCCCCCGCTTTCCATTGGCTGTAGCTCCGGCCCCGGG
CGGGCGAAGAGGGAGCGAGTGGGCGGGGCGCGTGGCGTCAGCGCAAGATGGCGGCCTCGGCAGCGGTGTTCTCG
CGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGCACGAGGTTGGCGACGCCGCCCGCGGGCCCCA
GATCAGGCCCGCAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGCTCAGAGGGT
CCCAGCTATGCCAAAAAAGTTGCGCTCTGGCTTGCTGGGCTGCTTGGAGCTGGTGGGACTGTGAGCGTCGTCTAT
ATCTTTGGAAACAACCCGGTGGACGAAAATGGTGCCAAGATTCTGATGAGTTCGACAATGATCCAATTCTGGTA
CAGCAGTTGCGCCGGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCACCAGCCCTTGCTT
CTCCCAGACCTCTGTCAGGAACCGTACTACCAGCCACCCTACACGCTCGTTTTGGAGCTCACCGGCGTCTCTTG
CATCCTGAGTGGTCGCTGGCCACTGGCTGGAGGTTTAAAGAAGCGCCAGGCATCGAGACCTTGTTCCAGCAGCTT
GCCCCTTTATATGAAATTGTCATCTTTACGTCAGAGACTGGCATGACTGCGTTTCCACTCATTGATAGTGTGGAC
CCCCATGGCTTCATCTCCTACCGCCTATTCCGGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATATT
TCATGTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCTGCAGCCCTAT
AACGGCGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGGTCTTGTGGATCTGTCTGCCTTCCTCAAG
ACCATTGCACTGAATGGTGTGGAGGACGTGCGAACCGTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGCG
GCTTTCAAACAGCGGCAAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAAG
CAGAACCTCTTCCTTGGCTCCCTCACCAGCCGCTTGTGGCCTCGCTCCAAACAGCCCTGAACTCTGGGCCTCCTC
AAACTCAGTGCCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTCCAATAAAGTACA
TCCCAGACGCCACACCTGCTGTGTCCCGAGAGTCTCCAGATGGGGGCATCAGGGTGAGGTCCGGGACTCTTGGGT
CATCGTCCCACAGTGGCTGATCGGCTGCCAAGCACAGTGGGGGTGCTTTGTTGGATCAGAGCAGATTTTTACCC
TGGTCTCGGAATCTAAAAACCTCGCTGTGTCTTCTGTGTGTTGCGTGATCTGTGAAAAATACATCTCCCTCTG
ACCACAGACTCCTCATCTGTGGAGAAGGGAAGAGAGGATGGCACTTGGCTTTAAAGACAGGTAGCTGCCAGGCTA
CTGTGGAGAGAATGTGTTATGGGCCTAGTGGGCCTCTGGTGGACAGAGATTACCCCTCTCAACAGGCCAGCTGC
TGGTTGGCTCCAGCCAGTGTGGCCCTGGGGTAAAGGGGGCCTGGAGTTGCTTGACACGCCAGTTGTTCAA

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FIGURE 5431

MASALS LGNKCDPFLRCVLCRGGGALQGPRGRGPDDFESQLSPFGSARRLVRSKRACGNPPDAFGLSRASVHPPL
PRVSI GCSSGPGRKRERVGGAAWRQRKMAASAAVFSRLRSGRLGSRGLCTRLATPPRRAPDQAAEIGSRGSK
AQGFQQPGSEGPSYAKKVALWLAGLLGAGGTVSVVYIFGNNPVDENGAKIPDEFDNDPILVQQLRRTYKYFKDY
RQMIIEPTSPCLLPDPLQEPYYQPPYTLVLELTGVLLHPEWSLATGWRFKKRPGIETLFQQLAPLYEIVIFTSET
GMTAFPLIDSVDPHGFISYRLFRDATRYMDGHHVKDISCLNRDPARVVVDCKKEAFRLQPYNGVALRPWDGNSD
DRVLLDLSAFLKTIALNGVEDVRTVLEHYALED DPLAAFKQRQSRLEQEEQQLAELSKSNKQNLFLGSLTSRLW
PRSKQP

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FIGURE 5432

GAAGGCCATGGTCTCCCCACGGATGTCCGGGCTCCTCTCCAGACTGTGATCCTAGCGCTCATTTCCTCCCCCA
GACACGGCCCCGCTGGCGTCTTCGAGCTGCAGATCCACTCTTTTCGGGCCGGGTCCAGGCCCTGGGGCCCCGCGGTC
CCCCTGCAGCGCCCCGGCTCCCCTGCCGCCTCTTCTTCAGAGTCTGCCTGAAGCCTGGGCTCTCAGAGGAGGCCGC
CGAGTCCCCGTGCGCCCTGGGCGCGGCGCTGAGTGC GCGCGGACCGGTCTACACCGAGCAGCCCCGGAGCGCCCCG
GCCTGATCTCCCACTGCCCCACGGGCTCTTG CAGGTGCCCTTCCGGGACGCCTGGCCTGGCACCTTCTCTTTCAT
CATCGAAACCTGGAGAGAGGAGTTAGGAGACCAGATTGGAGGGCCCCGCCTGGAGCCTGCTGGCGCGCGTGGCTGG
CAGGCGGGCGCTTGGCAGCCGGAGGCCCGTGGGCCCCGGGACATTACGCGCGCAGGCGCCTGGGAGCTGCGCTTCTC
GTACCGCGCGCGCTGCGAGCCGCTGCCGTTCGGGACCGCGTGCACGCGCCTCTGCCGTCCGCGCAGCGCCCCCTC
GCGGTGCGGTCCGGGACTGCGCCCCTGCGCACCGCTCGAGGACGAATGTGAGGCGCCGCTGGTGTGCCGAGCAGG
CTGCAGCCCTGAGCATGGCTTCTGTGAACAGCCCGGTGAATGCCGATGCCTAGAGGGCTGGACTGGACCCCTCTG
CACGGTCCCTGTCTCCACCAGCAGCTGCCTCAGCCCCAGGGGCCCCGTCTCTGTCTACCACCGGATGCCTTGTCCC
TGGGCCTGGGCCCTGTGACGGGAACCCGTGTGCCAATGGAGGCAGCTGTAGTGAGACACCCAGGTCCTTTGAATG
CACCTGCCCCGCTGGGTTCTACGGGCTGCGGTGTGAGGTGAGCGGGGTGACATGTGCAGATGGACCCTGCTTCAA
CGGCGGCTTGTGTGTGCGGGGGTG CAGACCCTGACTCTGCCTACATCTGCCACTGCCACCTGGTTTTCCAAGGCTC
CAACTGTGAGAAAGAGGGTGGACC GGTGCAGCCTGCAGCCATGCCGCAATGGCGGACTCTGCCCTGGACCTGGGCCA
CGCCCTGCGCTGCCGCTGCCGCGCCGGCTTCGCGGGTCTCGCTGCGAGCACGACCTGGACGACTGCGCGGGCCG
CGCCTGCGCTAACGGCGGCACGTGTGTGGAGGGCGGGCGGCGCGCACCGCTGCTCCTGCGCGCTGGGCTTCGGCGG
CCGCGACTGCCCGAGCGCGCGGACCCGTGCGCCGCGCGCCCCCTGTGCTCACGGCGGCCGCTGCTACGCCCACTT
CTCCGGCCCTCGTCTGCGCTTGCCTCCCGGCTACATGGGAGCGCGGTGTGAGTTCCAGTGACCCCCGACGGCGC
AAGCGCCTTGCCCCGCGCCCCGCCGGGCCTCAGGCCCGGGGACCCTCAGCGCTACCTTTTGCCTCCGGCTCTGGG
ACTGCTCGTGGCCGCGGGCGTGGCCGGCGCTGCGCTCTTGCTGGTCCACGTGCGCCGCCGTGGCCACTCCCAGGA
TGCTGGGTCTCGCTTGCTGGCTGGGACCCCGGAGCCGTGAGTCCACGCACTCCCGGATGCACTCAACAACCTAAG
GACGCAGGAGGGTTCCGGGGATGGTCCGAGCTCGTCCGTAGATTGGAATCGCCCTGAAGATGTAGACCCTCAAGG
GATTTATGTCATATCTGCTCCTTCCATCTACGCTCGGGAGGTAGCGACGCCCTTTTCCCCCGCTACACACTGG
GCGCGCTGGGCAGAGGCAGCACCTGCTTTTTTCCCTACCCTTCCTCGATTCTGTCCGTGAAATGAATTGGGTAGAG
TCTCTGGAAGGTTTTAAGCCATTTTCAGTTCTAACTTACTTTTCATCTATTTTGCATCCCTCTTATCGTTTTGA
GCTACCTGCCATCTTCTCTTT

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FIGURE 5433

MVSPRMSGLLSQTVILALIFLPQTRPAGVFELQIHSFGPGPGPGAPRSPCSARLPCRLFFRVCLKPGLSEEAES
PCALGAALSARGPVYTEQPGAPAPDLPLPDGLLQVPFRDAWPGTFSFIETWREELGDQIGGPAWSLLARVAGRR
RLAAGGPWARDIQRAGAWELRFSYRARCEPPAVGTACTRLCRPRSAPSRCGPGLRPCAPLEDECEAPLVCRAGCS
PEHGFCEQPGECRCLEGWTGPLCTVPVSTSSCLSPRGPSATTGCLVPGPGPCDGNPCANGGSCSETPRSFECTC
PRGFYGLRCEVSGVTCADGPCFNGGLCVGGADPDSAYICHCPPGFQGSNCEKRVDRCSLQPCRNGGLCLDLGHAL
RCRCRAGFAGPRCEHDLDDCAGRACANGGTCVEGGGAHRCSCALGFGRDCREERADPCAARPCAHHGGRGYAHFSG
LVCACAPGYMGARCEFPVHPDGASALPAAPPGLRPGDPQRYLLPPALGLLVAAGVAGAALLLVHVRRRGHSQDAG
SRLLAGTPEPSVHALPDALNNLRTQEGSGDGPSSSVDWNRPEDVDFQGIYVISAPSIYAREVATPLFPPLHTGRA
GQRQHLLFPYPSSILSVK

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FIGURE 5434

GGGATGGGGGCGGAGTCCAGGGCGTGGGGGGGCCGGTTTGTGTGGTCCGCAATTTGCTGGTTGCATTACTGGGT
AATCGGGGCCCTGGCTTGCCGCGTCCGCCGGATACCCCTCAGCCAGTGGGCAGGTCTGAGCTCGGGCTCCCCGAGC
AGTTTGAGTCCCCCTTGCCGCTCCTTCAGGTCTCAGCGCGGTGGCAGCCGAGGTGCAGGATGCAAGAAGGCGCC
CCCCGGCCGGGCTCCCGCTCCAGGCCTCGCTCCCCCTGCGGGCCCTCTGAGCCCACCATGGCCGTCCCACCGGGCCA
TGGTCCCCTTCTCTGGCTTCCCAGGGCCCCAGGAGCACACGCAGGTATTGCCTGATGTGCGGCTACTGCCTCGGAG
GCTGCCCCCTGGCCTTCCGGGATGCAACCTCAGCCCCGCTGCGTAAGCTCTCTGTGGACCTCATCAAGACCTACAA
GCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGCGGGCCCCAGCAGGCGCCACCCCAGGATTCGAGCAACAA
GAAGGAGAAGAAGGTCTGAACCATGGTTATGATGACGACAACCATGACTACATCGTGCGCAGTGGCGAGCGCTG
GCTGGAGCGCTACGAAATTGACTCGCTCATTGGCAAAGGCTCCTTTGGCCAGGTGGTGAAAGCCTATGATCATCA
GACCCAGGAGCTTGTGGCCATCAAGATCATCAAGAACAAGGCTTTCTGAACCAGGCCCAGATTGAGCTGCG
GCTGCTGGAGCTGATGAACCAGCATGACACGGAGATGAAGTACTATATAGTACACCTGAAGCGGCACTTCATGTT
CCGGAACCACTGTGCCTGGTATTTGAGCTGCTGTCTACAACCTGTACGACCTCCTGCGCAACACCCACTTCCG
CGCGTCTCGCTGAACCTGACCCGGAAGCTGGCGCAGCAGCTCTGCACGGCACTGCTCTTTCTGGCCACGCCTGA
GCTCAGCATCATTCACTGCGACCTCAAGCCCGAAAACATCTTGCTGTGCAACCCCAAGCGCAGCGCCATCAAGAT
TGTGGACTTCGGCAGCTCCTGCCAGCTTGGCCAGAGGATCTACCAGTATATCCAGAGCCGCTTCTACCGCTCACC
TGAGGTGCTCCTGGGCACACCCTACGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTTGTGGAGATGCA
CACCGGAGAGCCCCTCTTCAGTGGCTCCAATGAGGTGACACAGATGAACCGCATGTGGAGGTGCTGGGCATCCC
ACCGGCCGCCATGCTGGACCAGGCGCCCAAGGCTCGCAAGTACTTTGAACGGCTGCCTGGGGGTGGCTGGACCCT
ACGAAGGACGAAAGAACTCAGGAAGGATTACCAGGGCCCCGGGACACGGCGGCTGCAGGAGGTGCTGGGCGTGCA
GACGGGCGGGCCCGGGGGCCGGCGGGGAGCCGGGCCACAGCCCCGCGACTACCTCCGCTTCCAGGACCT
GGTGTGCGCATGCTGGAGTATGAGCCGCGCGCCGCATCAGCCCCCTGGGGGCTCTGCAGCACGGCTTCTTCCG
CCGCACGGCCGACGAGGCCACCAACACGGGCCCCGGCAGGCAGCAGTGCCTCCACCTCGCCCGCGCCCCCTCGACAC
CTGCCCTCTTCCAGCACCGCCAGCTCCATCTCCAGTTCTGGAGGCTCCAGTGGCTCCTCCAGTGACAACCGGAC
CTACCGCTACAGCAACCGATATTGTGGGGGCCCTGGGCCCCCTATCACAGACTGTGAGATGAACAGCCCCCAGGT
CCCACCTCCCAGCCGCTGCGGCCCTGGGCAGGGGGTGATGTGCCCCACAAGACACATCAAGCCCCCTGCCTCTGC
CTCGTCACTGCCTGGGACCGGGGCCAGTTACCCCCCAGCCCCGATACTTGGTCTGTCCTCCATCACCACCTC
ACCACCACCCCCGGAGCTGATGGATGTGAGCCTGGTGGGCGGCCCTGCTGACTGCTCCCCACCTCACCAGCGCC
TGCCCCCAGCACCCGGCTGCCTCAGCCCTCCGGACTCGGATGACTGGAGGTCTGTCACCCCTCCCGCCTCCTGA
TGACCCTGCCACTCTGGGGCCTCACCTGGGCCTCCGTGGTGTACCCAGAGCACAGCAGCCAGCTCGTGAACCCCTG
CCCCCTCCCTGGGGCCCCCTCCTGAAGCCATAACCTCCCCCATCTGGGGGCCCTGGGCTCCCATCCTCATCTCTCT
CCTTGACTGGAATTGCTGCTACCCAGCTGGGGTGGGTGAGGCCTGCACTGATTGGGGCCTGGGGCAGGGGGGTCA
AGGAGAGGGTTTTGGCCGCTCCCTCCCCACTAAGGACTGGACCCTTGGGGCCCTCTCCCCCTTTTTTCTATTTA
TTGTACCAAAGACAGTGGTGGTCCGGTGGAGGGAAGACCCCCCTCAGCCAGGACCCCTAGGAGGGGTGGGGGC
AGGTAGGGGGAGATGGCCTTGCTCCTCCTCGCTGTACCCCCAGTAAAGAGCTTCTCACAAAAAA

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FIGURE 5435

MAVPPGHGPFSGFPGPQEHTQVLPDVRLLPRLPLAFRDATSAPLRKLSVDLIKTYKHINEVYYAKKKRRAQQAP
PQDSSNKKEKKVLNHGYDDDNHDYIVRSGERWLERYEIDSLIGKGSFGQVVKAYDHQTQELVAIKI IKNKKAFLN
QAQIELRLLELMNQHDTEMKYYIVHLKRHFMRNHLCLVFELLSYNLYDLLRNTHFRGVSLNLTRKLAQQQLCTAL
LFLATPELSIIHCDLKPENILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYRSPEVLLGTPYDLAIDMWSLG
CILVEMHTGEPLFSGSNEVDQMNRIEVLGIPPAAMLQAPKARKYFERLPGGGWTLLRRTKELRKDYQGGPTRRL
QEV LGVQTGGPGGRRAGEPGHSPADYLRFDLVLRMLEYEPAARISPLGALQHGGFFRRTADEATNTGPAGSSAST
SPAPLDTCPSSSTASSISSSGSSGSSSDNRITYRYSNRYCGGPGPPITDCEMNSPQVPPSQPLRPWAGGDVPHKT
HQAPASASSLPGTGAQLPPQPRYLGRPPSPTSPPPELMDVSLVGGPADCSPPHPAPAPQHPAASALRTRMTGGR
PPLPPPDDPATLGPHLGLRGVPQSTAASS

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FIGURE 5436

GGATCCGGCAACGAAGGTACCATGGCCGGACTCCGGAGCCGCACAAACCAGGGCTCGCCATGAAGCCAGGATTCA
GTCCCCGTGGGGGTGGCTTTGGCGGCCGAGGGGGCTTTGGTGACCGTGGTGGTCGTGGAGGCCGAGGGGGCTTTG
GCGGGGGCCGAGGTTCGAGGCGGAGGCTTTAGAGGTTCGTGGACGAGGAGGAGGTGGAGGCCGCGCGGCGGTGGAG
GAGGAGGAAGAGGTGGTGGAGGCTTCCATTCTGGTGGCAACCGGGGTTCGTGGTCGGGGAGGAAAAAGAGGAAACC
AGTCGGGGGAAGAATGTGATGGTGGAGCCGCATCGGCATGAGGGTGTCTTCATTGTGCGAGGAAAGGAAGATGCAC
TGGTCACCAAGAACCTGGTCCCTGGGGAATCAGTTTATGGAGAGAAGAGAGTCTCGATTTCGGAAGGAGATGACA
AAATTGAGTACCGAGCCTGGAACCCCTTCCGCTCCAAGCTAGCAGCAGCAATCCTGGGTGGTGTGGACCAGATCC
ACATCAAACCGGGGGCTAAGGTTCTCTACCTCGGGGCTGCCTCGGGCACCACGGTCTCCCATGTCTCTGACATCG
TTGGTCCGGATGGTCTAGTCTATGCAGTCGAGTTCTCCACCGCTCTGGCCGTGACCTCATTAACCTGGCCAAGA
AGAGGACCAACATCATTCTGTGATCGAGGATGCTCGACACCCACACAAATACCGCATGCTCATCGCAATGGTGG
ATGTGATCTTTGCTGATGTGGCCAGCCAGACCAGACCCGGATTGTGGCCCTGAATGCCACACCTTCTGCGTA
ATGGAGGACACTTTGTGATTTCCATTAAGGCCAACTGCATTGACTCCACAGCCTCAGCCGAGGCCGTGTTTGCCT
CCGAAGTGAAAAAGATGCAACAGGAGAACATGAAGCCGAGGAGCAGTTGACCCCTGAGCCATATGAAAGAGACC
ATGCCGTGGTTCGTGGGAGGTACAGGCCACCCCCAAGGTGAAGAACTGAAGTTTCAGCGCTGTCAGGATTGCGAG
AGATGTGTGTTGATACTGTTGCACGTGTGTTTTTCTATTAAAAGACTCATCCGTCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 5437

MKPGFSPRGGGFGGRGGFGDRGGRGGRGGFGGGRGRGGGFRGRGRGGGGGGGGGGGGGRGGGGFHSGGNRGRGRG
GKRGNSGKNVMVEPHRHEGVFICRGKEDALVTKNLVPGESVYGEKRVSISEGDDKIEYRAWNPFRSKLAAAILG
GVDQIHIKPGAKVLYLGAASGTTVSHVSDIVGPDGLVYAVEFSHRSGRDLINLAKKRTNIIPVIEDARHPHKYRM
LIAMVDVIFADVAQPDQTRIVALNAHTFLRNGGHFVISIKANCIDSTASAEAVFASEVKKMQQENMKPQEQLTLE
PYERDHAVVVGVRPPPKVKN

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FIGURE 5438

CAACGGGGGCATCCACTACATCACCCCTTGATGGCCGTGTCTACGACCTGCATGGCTCCTGCTCCTATGTCTTGGC
CCAAGTCTGCCACCCAAAGCCTGGGGACGAGGACTTTTCCATCGTGCTTGAGAAGAATGCAGCTGGAGATCTCCA
ACGCCTCCTGGTTACTGTGGCTGGCCAGGTTGTGAGCCTAGCTCAGGGGCAGCAGGTCACCGTGGACGGCGAGGC
TGTGGCCCTGCCTGTGGCTGTGGGCCGCGTGCGGGTGACCGCCGAGGGCCGAAACATGGTTCTGCAGACGACCAA
GGGGCTGCGGCTTCTCTTTGATGGCGATGCCCACCTCCTCATGTCCATCCCCAGCCCCCTTCCGTGGACGGCTCTG
TGGCCTCTGTGGGAACTTCAATGGCAACTGGAGTGACGACTTTGTCTGCCCCAATGGCTCAGCAGCGTCCAGTGT
GGAGACCTTCGGGGCTGCATGGCGGGCGCCCGGCTCCTCCAAGGGCTGTGGCGAGGGCTGCGGGCCCCAAGGCTG
CCCAGTGTGCTTGGCAGAGGAGACTGCACCCTATGAGAGCAACGAGGGCTGCGGGCAGCTCCGGAACCCCCAGGG
CCCCTTCGCGACCTGCCAGGCGGTGCTGAGTCCCTCTGAGTACTTCCGCCAATGCGTATACGACCTGTGCGCGCA
AAAGGGTGACAAAGCCTTCTGTGCCGCAGCCTGGCAGCCTACACGGCGGCCTGTCAGGCAGCTGGCGTGGCCGT
GAAGCCCTGGAGGACAGACAGCTTCTGCCCGCTCCATTGCCCCGCCCACAGCCACTACTCCATCTGCACTCGCAC
CTGCCAGGGATCCTGTGCGGCTCTCTCCGGCCTCACGGGCTGCACCACCCGCTGTTTTGAGGGCTGTGAGTGCGA
CGACCGCTTCTTGCTTTCCCAGGGTGCTGTCATCCCTGTCCAAGATTGTGGCTGCACCCATAATGGCCGATACTT
GCCGGTAAACTCCTCCCTGCTGACCTCAGACTGCAGCGAGCGCTGTTCTGTTCCTCAAGCTCTGGCCTGACATG
CCAGGCAGCTGGCTGCCCCACCAGGCCGTGTATGTGAGGTCAAGGCTGAAGCCCGGAAGTGTGGGCCACCCGTGG
TCTCTGTGTCTCTGTCTGTGGGTGCCAACCTCACACCTTTGATGGGGCCCGTGGTGCCACCACCTCTCCTGGTGT
CTATGAGCTCTCTTCCCGCTGCCCAGGACTACAGAATACCATCCCCTGGTACCGTGTAAGTTGCCGAAGTCCAGAT
CTGCCATGGCAAAACGGAGGCTGTGGGCCAGGTCCACATCTTCTTCCAGGATGGGATGGTGACGTTGACTCCAAA
CAAGGGTGTGTGGGTGAATGGTCTCCGAGTGGATCTCCAGCTGAGAAGTTAGCATCTGTGTCCGTGAGTCGTAC
ACCTGATGGCTCCCTGCTAGTCCGCCAGAAGGCAGGGGTCCAGGTGTGGCTTGGAGCCAATGGGAAGGTGGCTGT
GATTGTGAGCAATGACCATGCTGGGAAACTGTGTGGGGCTGTGGAAACTTTGACGGGGGACCAGACCAATGATTG
GCATGACTCCCAGGAGAAGCCAGCGATGGAGAAATGGAGAGCGCAGGACTTCTCCCCATGTTATGGCTGATCAGT
CATCCACCAGGAACGAAGATTTCTGAAGAAGACCTGGTCCCTCTGGAGGTTGCAGTGGCTGAAGGATGCATCAT
GTGCTCCTACCCTGCTCTACCGCTTTTCTGGGTACAGAGGCCAAATGTGAGAGCATTGAATAAATATCTTAAGC
T

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FIGURE 5439

GTCAACTTAGTGTAACAATGCTGTCAGATGAACCTTACCCTTGTAAGGCTTGTAACCTTGGTTCCCTCCCTTTCTTAA
GCCCTTATTGGCTATCTTTCTTCTTTTAATATTTAAAGTTTTTAATCTTTAAATTTTAAATTTTAAACCATGCT
TGTTTAACTGCTGGTAAAATTCACGTCTTTTCACTGTAAATGCTTTTCATGCCAAGTAAATGGTCTTGCCAGGCT
TCCAGCCTGTTTTCAGAGACCACTAGCCCAGAGCCGTATCAGCCCCCTTCAGCAAGCCATAAGAAATTTCTACTCCT
CCTGGAAATAGATGTAGAGACTATGTCCATGCTTAGCAGGAAGTAGTTCCAGAAGAGACCTTTGCTCCTTAAGAA
TAAGGAGAATGAGGACTGCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAA
CATGTGGAATCCCAATGCCGGGCAGCCAGGGCCAAATCCATATCCCCCAATATTGGGTGCCCTGGAGGTTCCAA
TCCTGCCCCACCCACCACCTATTAATCCACCCTTTCCCCCAGGCCCCCTGTCTCCTCCCCCAGGAGCTCCCCATGG
CAATCCAGCTTTCCCCCAGGTGGGCCCCCTCATCTGTGCCACAGCCAGGGTATCCAGGATGCCAACCGTTGGG
TCCCTACCCTCCTCCATACCCACCGCCTGCCCTGGAATCCCTCCTGTGAATCCCTTGGCTCCTGGCATGGTTGG
ACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATGCACAAGCACCACAAA
GCACCACAAGTACCACAAGCATGACAAGCATTCTCCTCTTCTCCTCCTCTTCCAGCAGTGATTCTGACTGAAT
ACAGGCCCTGGACCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATGCCACGTTGTACTGG
GGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGAGCCCTGAGTGGCTA
GGGGAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTTGCTGCTTGGAGAGATCATATAGCTAATGAATTA
GGCAGGGGAGCTATTTTTTGAAGATGATGAACTAAATGTTGAAGACAAGTTTGAGATCTGTAAAATGTGATTTTT
TACTTCCACTTATAATACTTGTGATTGGGGAGGTTTGTGGAAATTCAATTATGATGAAAAACCTCTATCTTTTTT
GTAATGTTGGCATACTTGGGGGATTTAGTGGCAAATACATTCCCCAGCAGGCCTTTTGTGTTGCTGCACTAACTGC
AAGGTTGCTGGGAAGTAGAGTCCATTTGGTTGATGAGCTTTGACTGCGGTTTTGGAACCTTACCTCTCCTCCTTA
GCCCAATATGCTGTCTCGGGTCCTATTCAAATAAAGTTATTTCTCCTGGTCT

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FIGURE 5440

GCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAACATGTGGAATCCCAATG
CCGGGCAGCCAGGGCCAAATCCATATCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGA
TGCCAACCGTTGGGTCCCTACCCTCCTCCATACCCACCGCCTGCCCCCTGGAATCCCTCCTGTGAATCCCTTGGCT
CCTGGCATGGTTGGACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATG
CACAAGCACCAAAAGCACCAAGTACCACAAGCATGACAAGCATTCTCCTCTTCCTCCTCCTCTTCCAGCAGT
GATTCTGACTGAATACAGGCCCTGGACCCCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATG
CCACGTTGTACTGGGGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGA
GCCCTGAGTGGCTAGGGGAAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTTGCTGCTTGGAGAGATCATA
TAGCTAATGAATTAGGCAGGGGAGCTATTTTTTGAAGATGATGAACTAAATGTT

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FIGURE 5441

GGCTTGGTCACT**ATG**GAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCC
CGGCCCCAGACCGGCCTGTCCTTCCTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGCTACAAGAAG
CTGCAGCAAGAGCTGGAGTTCCTGGAGGTGCAGGAGGAATACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAA
TTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCATCCCCTGGTCATCGGACAATTTCTGGAGGCTGTG
GATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCAACCTATTATGTGCGCATCCTGAGCACCATCGATCGG
GAGCTGCTCAAGCCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGCTGCCCCCGAA
GCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCCTCAGGCATTTTCGAGCTCTACAAGCAGATCGGCATC
GATCCCCCCCCGAGGCGTCTCTCATGTATGGCCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGCGGTGGCACAT
CACACAACAGCTGCATTTCATCCGGGTCTGTGGGCTCGGAGTTTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATG
GTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAGACGAGATTGATGCCATCGCC
ACCAAGAGATTTCGATGCTCAGACAGGGGCCGACAGGGAGGTTTCAGAGGATCCTGCTGGAGCTGCTGAATCAGATG
GATGGATTTGATCAGAATGTCAATGTCAAGGTAATCATGGCCACAAACAGAGCAGACACCCTGGATCCGGCCCTG
CTACGGCCAGGACGGCTGGACCGTAAATTTGAATTTCCACTTCCTGACCGCCGCCAGAAGAGATTGATTTTCTCC
ACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACTTGGAAGACTATGTGGCCCGGCCAGATAAGATTTC
GGAGCTGATATCAACTCCATCTGTCTCAGGAGAGTGAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCCTGGCC
AAGGACTTCGAGAAAGCATAAAGACTGTCATCAAGAAGGACGAGCAGGAGCATGAGTTTTACAAG**TG**ACCCTTC
CCTTCCCTCCACCACACCACTCAGGGGCTGGGGCTTCTCTCGCACCCCCAGCACCTCTGTCCCAAAACCTCATT
CCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAGATAAGATCGAATCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5442

MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDLEDLYSRYKKLQQELEFLEVQEEYIKDEQKNLKKEFLHA
QEEVKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYYVRILSTIDRELLKPNASVALHKHSNALVDVLPPEADSS
IMMLTSDQKPDVMYADIGGMDIQKQEVREAVELPLTHFELYKQIGIDPPRGVLMYGPPGCGKTM LAKAVAHHTTA
AFIRVVGSEFVQKYLGE GPRMVRDV FRLAKENAPAIIFIDEIDAIATKRFDAQTGADREVQRILLELLNQMDGFD
QNVNVKVIMATNRADTLDPALLRPGR LDRKIEFPLPDRRQKRLIFSTITSKMNLSEEVDLEDYVARPDKISGADI
NSICQESGMLAVRENRYIVLAKDFEKAYKTVIKKDEQEHEFYK

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FIGURE 5443

ACTGTGCCCTGTCCACGGTGCCTCCTGCATGTCCTGCTGCCCTGAGCTGTCCCGAGCTAGGTGACAGCGTACCAC
GCTGCCACCATGAATGAGGTGTCTGTCATCAAAGAAGGCTGGCTCCACAAGCGTGGTGAATACATCAAGACCTGG
AGGCCACGGTACTTCCTGCTGAAGAGCGACGGCTCCTTCATTGGGTACAAGGAGAGGCCCGAGGCCCTGATCAG
ACTCTACCCCCCTTAAACAACCTTCTCCGTAGCAGAATGCCAGCTGATGAAGACCGAGAGGCCGCGACCCAACACC
TTTGTATACGCTGCCTGCAGTGGACCACAGTCATCGAGAGGACCTTCCACGTGGATTCTCCAGACGAGAGGGAG
GAGTGGATGCGGGCCATCCAGATGGTCGCCAACAGCCTCAAGCAGCGGGCCCCAGGCGAGGACCCCATGGACTAC
AAGTGTGGCTCCCCCAGTGACTCCTCCACGACTGAGGAGATGGAAGTGGCGGTGAGCAAGGCACGGGGCTAAAGTG
ACCATGAATGACTTCGACTATCTCAAACCTTGGCAAGGGAACCTTTGGCAAAGTCATCCTGGTGCGGGAGAAG
GCCACTGGCCGCTACTACGCCATGAAGATCCTGCGGAAGGAAGTCATCATTGCCAAGGATGAAGTCGCTCACACA
GTCACCGAGAGCCGGGTCTCCAGAACACCAGGCACCCGTTCTCACTGCGCTGAAGTATGCCTTCCAGACCCAC
GACCGCTGTGCTTTGTGATGGAGTATGCCAACGGGGGTGAGCTGTTCTTCCACCTGTCCCGGGAGCGTGTCTTC
ACAGAGGAGCGGGCCCGGTTTTATGGTGCAGAGATTGTCTCGGCTCTTGAGTACTTGCACTCGCGGGACGTGGTA
TACCGCGACATCAAGCTGGAAAACCTCATGCTGGACAAAGATGGCCACATCAAGATCACTGACTTTGGCCTCTGC
AAAGAGGGCATCAGTGACGGGGCCACCATGAAAACCTTCTGTGGGACCCCGGAGTACCTGGCGCCTGAGGTGCTG
GAGGACAATGACTATGGCCGGGCGGTGGACTGGTGGGGGCTGGGTGTGGTCATGTACGAGATGATGTGCGGCCGC
CTGCCCTTCTACAACCAGGACCACGAGCGCCTCTTCGAGCTCATCCTCATGGAAGAGATCCGCTTCCCGCGCACG
CTCAGCCCCGAGGCCAAGTCCCTGCTTGCTGGGCTGCTTAAGAAGGACCCCAAGCAGAGGCTTGGTGGGGGGCCC
AGCGATGCCAAGGAGGTGATGGAGCACAGGTTCTTCCTCAGCATCAACTGGCAGGACGTGGTCCAGAAGAAGCTC
CTGCCACCCCTCAAACCTCAGGTCACGTCCGAGGTGACACAAGGTACTTCGATGATGAATTTACCGCCAGTCC
ATCACAATCACACCCCCTGACCGCTATGACAGCCTGGGCTTACTGGAGCTGGACCAGCGGACCCACTTCCCCCAG
TTCTCCTACTCGGCCAGCATCCGCGAGTGAGCAGTCTGCCACGCAGAGGACGCACGCTCGTGCCATCACCGCT
GGGTGGTTTTTTCCCCCT

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FIGURE 5444

CTCTTTATAATTTAGTTTCCATAGAAGTTATATGTGCATTTAAAAAAATTCAATGCTGGAGCGACCGTGTCTGGG
GAGCCGAGCCCCGCTTCTCGCTGCGGTGAGCCCGGACTGGGGCACGCACTGCGCAGACTCCCCGCTGCAGTGGGC
GGAGCTCCACAGGCCCCGCCCCCTCCTCCACCCTCGTTACGCTGTCCAGACAGAAGCTGGGGCCCAGCGGAG
GTAGCAGCAGACGCTGAGAGCGAGGCCGAGGCCCTCAGGGTTTGGAGACCCTGACACACCCACCTTCTCACCT
GGGCTCTGCGTATCCCCAGCCTTGAGGGAAGATGAAGCCTAAACTGATGTACCAGGAGCTGAAGGTGCCTGCAG
AGGAGCCCGCCAATGAGCTGCCCATGAATGAGATTGAGGCGTGGAAGGCTGCGGAAAAGAAAAGCCCGCTGGGTCC
TGCTGGTCCTCATTCTGGCGGTTGTGGGCTTCGGAGCCCTGATGACTCAGCTGTTTCTATGGGAATACGGCGACT
TGCATCTCTTTGGGCCCAACCAGCGCCCAGCCCCCTGCTATGACCCTTGCGAAGCAGTGCTGGTGGAAAGCATT
CTGAGGGCCTGGACTTCCCCAATGCCTCCACGGGGAACCCTTCCACCAGCCAGGCCTGGCTGGGCCTGCTCGCCG
GTGCGCACAGCAGCCTGGACATCGCCTCCTTCTACTGGACCCTCACCAACAATGACACCCACACGCAGGAGCCCT
CTGCCCAGCAGGGTGAGGAGTCCCTCCGGCAGCTGCAGACCCTGGCACCAAGGGCGTGAACGTCCGCATCGCTG
TGAGCAAGCCCAGCGGGCCCCAGCCACAGGCGGACCTGCAGGCTCTGCTGCAGAGCGGTGCCAGGTCCGCATGG
TGGACATGCAGAAGCTGACCCATGGCGTCTCTGCATACCAAGTTCTGGGTGGTGGACCAGACCCACTTCTACCTGG
GCAGTGCCAACATGGACTGGCGTTCCTGACCCAGGTCAAGGAGCTGGGCGTGGTTCATGTACAACTGCAGCTGCC
TGGCTCGAGACCTGACCAAGATCTTTGAGGCCTACTGGTTCCTGGGCCAGGCAGGCAGCTCCATCCCATCAACTT
GGCCCCGGTTCTATGACACCCGCTACAACCAAGAGACACCAATGGAGATCTGCCTCAATGGAACCCCTGCTCTGG
CCTACCTGGCGAGTGCGCCCCCACCCTGTGTCCAAGTGGCCGCACTCCAGACCTGAAGGCTCTACTCAACGTGG
TGGACAAATGCCCGGAGTTTTCATCTACGTGCTGTCTGTAACCTACCTGCCCCTCTGGAGTTCTCCCACCCTCACA
GGTTCTGGCCTGCCATTGACGATGGGCTGCGGGCGGGCCACCTACGAGCGTGGCGTCAAGGTGCGCCTGCTCATCA
GCTGCTGGGGACACTCGGAGCCATCCATGCGGGCCTTCTGCTCTCTCTGGCTGCCCTGCGTGACAACCATACCC
ACTCTGACATCCAGGTGAAACTCTTTGTGGTCCCCGCGGATGAGGCCAGGCTCGAATCCCATATGCCCGTGTCA
ACCACAACAAGTACATGGTGAACGCGCCACCTACATCGGAACCTCCAAGTGGTCTGGCAACTACTTCACGG
AGACGGCGGGCACCTCGCTGCTGGTGACGCAGAATGGGAGGGCGGGCTGCGGAGCCAGCTGGAGGCCATTTTCC
TGAGGGACTGGGACTCCCCTTACAGCCATGACCTTGACACCTCAGCTGACAGCGTGGGCAACGCCTGCCGCCTGC
TCTGAGGCCCCGATCCAGTGGGCAGGCCAAGGCCTGCTGGGCCCCCGCGGACCCAGGTGCTCTGGGTACGGTCCC
TGTCCCCGCGCCCCCGCTTCTGTCTGCCCCATTGTGGTCTCTCAGGCTCTCTCCCCTGCTCTCCACCTCTACCT
CCACCCCCACCGGCCTGACGCTGTGGCCCCGGGACCCAGCAGAGCTGGGGGAGGGATCAGCCCCAAAAGAAATGG
GGGTGCATGCTGGGCCTGGCCCCCTGGCCCACCCCCACTTTCCAGGGCAAAAAGGGCCAGGGTTATAATAAGTA
AATAACTTGTCTGT

5907/6881
FIGURE 5445

GCACACCCGGAAGTGGGTGCGGGCCAGCCGGCTCGCCCCGGGGCCATGGCAGCAGCGGCTACTGCAGCCGAGGGG
GTCCCCAGTCGGGGGCCCTCCCGGGGAAGTCATTCATCTGAATGTGGGAGGCAAGAGATTAGTACCTCTCGCCAG
ACTCTCACCTGGATCCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAGATGAGACC
GGAGCAATCTTCATCGATCAGGGACCATTACAGTCTTCGCCCCACCGTCACTCTACGTCTTGCGCATCACAAAGA
GTTGGATCCCAGGGGTGTCCACGGTTCAGCCTCCTCCATGAAGCCCAGTTCTATGGGCTCACTCCTCTGGTTTCG
TCGCCTGCAGCTTCGAGAGGAGTTGGATCGATCTTCTTGTGGAAACGTCCCTCTTCAATGGTTACCTGCCGCCACC
AGTGTTCACAGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGGCCTCAGCAGCTAGGAGGACGGCCAGCCCCTGT
CCGACGGAGCAACACGATGCCCCCAACCTTGGAATGCAGGGCTGCTGGGCCGAATGCTGGATGAGAAAACCCC
TCCCTCACCTCAGGACAACCTGAGGAGCCGGGGATGGTGCGCTGGTGTGTGGACACCATAATTGGATCGCTGT
GGCCTATACCCAGTTTCTAGTCTGCTACAGGTTGAAGGAAGCCTCTGGCTGGCAGCTGGTGTTCAGCCCCCG
CCTGGACTGGCCCATCGAACGACTGGCGCTCACAGCCCCGGGTGCATGGTGGGGCTTTGGGTGAACATGACAAGAT
GGTGGCAGCAGCCACCGGCAGCGAGATCCTGCTATGGGCTCTGCAGGCGGAAGGCGGTGGCTCCGAGATAGGGGT
CTTTCATCTGGGGGTGCTGTGGAGGCCTTGTCTTCGTCGGGAACCAAGCTCATTGCTACAAGCCACACAGGGCG
CATCGGGGTGTGGAATGCCGTACCAAGCACTGGCAGGTCCAGGAGGTGCAGCCCATCACCAGTTATGACGCGGC
AGGCTCCTTCCTCCTCTGGGCTGCAACAACGGCTCCATTTACTACGTGGATGTGCAGAAGTTCCCTTGCGCAT
GAAAGACAACGACCTCCTTGTGTCAGCGAGCTCTATCGGGACCCAGCGGAGGATGGGGTCAACGCCCTCAGTGTCTA
CCTCACCCCCAAGACCAGTGACAGTGGGAACCTGGATCGAGATCGCCTATGGCACCAGCTCAGGGGGCGTGGGGT
CATCGTGCAGCACCCGGAGACTGTGGGCTCGGGGCCTCAGCTCTTCCAGACCTTCACTGTGCACCGCAGCCCTGT
CACCAAGATCATGCTGTGCGAGAAGCACCTCATCTCAGTCTGTGCCGACAACAACCACGTGCGGACATGGTCTGT
GACTCGCTTCCGCGGCATGATTTCCACCCAGCCCGGCTCCACCCCACTCGCTTCCTTTAAGATCCTGGCTCTGGA
GTCCGGCAGATGGGCATGGCGGCTGCAGTGTGGCAATGACATTGGCCCCCTACGGTGAGCGGGACGACCAGCAAGT
GTTTCATCCAGAAGGTGGTGCCAGTGCAGCCAGCTCTTCGTGCGTCTCTCATCTACTGGGCAGCGGGTGTGCTC
CGTGCGCTCCGTGGACGGCTCACCCACGACAGCCTTCACAGTGTGGAGTGCAGAGGGCTCCCGCGGCTCGGCTC
TCGGCCCCGGCGCTACCTGCTCACTGGCCAGGCCAACGGCAGCTTGGCCATGTGGGACCTAACCACCGCCATGGA
CGGCCTCGGCCAGGCCCCCTGCAGGTGGCCTGACGGAGCAAGAGCTGATGGAACAGCTGGAACACTGTGAGCTGGC
CCCGCCGGCTCCTTCAGCTCCCTCATGGGGCTGTCTCCCCAGCCCCCTACCCCGCATCTCCCTCACCAGCCTCCA
CTCAGCCTCCAGCAACACCTCCTTGTCTGGCCACCGTGGGAGCCCAAGCCCCCGCAGGCTGAGGCCCCGGCGCG
TGGTGGGGGCAGCTTTGTGGAACGCTGCCAGGAACTGGTGCGGAGTGGGCCAGACCTCCGACGGCCACCCACACC
AGCCCCGTGGCCCTCCAGCGGTCTCGGCACTCCCCTCACACCTCCCAAGATGAAGCTCAATGAACTTCCTTTTG
AACAACGCAGCTGCCATGATGCCTTGGGATGCCCTGGTCTGGGGGACTCAGGTGCCTCCCTGATTCCTGTGGGA
ACCCCGGGTTACGGGCCAGGGCCTCCTTGGAATAAATGGTTATTGTTACTAGGTCCCCACCTTCCTCTTTTCTG
GAAGCCAAAGTCACCTCCCCAATAAAGTCCTCACTGCC

5908/6881
FIGURE 5446A

CGTTGCTGTTTGTGCTGCTGCCCCGGGCCAGACGTCTAGGAGGAGCCGCTGCATCCGAGTCCCTGGCTGTCTCCG
AAGCCTTCTGCAGGGTCCGAAGCTGCCAGCCCCAAAAGTGTGCAGGCCCCAGCGGTGCCTGAACCCAGTGCCTG
CAGTGCCCACTGCCAGCCCCAGCGTGAGGAAGAGACAGGTGTCCCTCAACTGGCAGCCACTGACGCTCCAGGAGG
CCAGAGCTCTACTGAAGCGGCGGCGGCCCGGGGGCCAGGGGGCCGGGGACTACTGAGAAGGAGGCCCCACAGC
GTGCCCCCGCTGGCAAGGCCCGGTCTGTGTCCCTTGATCTGTACAAATGGCGGTGTGTGCGTGAAGCCTGACC
GCTGCCTCTGTCCCCCGGACTTCGCTGGCAAGTTCTGCCAGTTGCACTCCTCGGGCGCCCGCCCCCGGCCCGG
CTGTACCAGGCCTCACCCGCTCCGTGTACACTATGCCACTGGCCAACCACCGCGACGACGAGCAGCGCTGGCAT
CTATGGTGAGCGTCCACGTGGAGCACCCGCAGGAGGCGTCCGGTGGTGGTGCACCAGGTGGAGCGTGTGTCTGGCC
CTTGGGAGGAGGCGGACGCTGAGGCGGTGGCGCGGGCGGAAGCGGCGGCGGGCGGAGGCGGCAGCGCCCTACA
CGGTGTTGGCACAGAGCGCGCCGCGGGAGGACGGCTACTCAGATGCCTCGGGCTTCGGTTACTGCTTTCGGGAGC
TGCGCGGAGGCGAATGCGCGTCCCCGCTGCCCGGGCTCCGGACGCAGGAGGTCTGCTGCCGAGGGGCGGGCTTGG
CCTGGGGCGTTACGACTGTGAGCTGTGCTCCGAGCGCTGGGGAACTCCGAAAGAGTGAGCGCCCCAGATGGAC
CTTGTCCAACCGGCTTTGAAAGAGTTAATGGGTCTGCGAAGATGTGGATGAGTGCGCGACTGGCGGGCGCTGCC
AGCACGGCGAGTGTGCAAACACGCGCGGGCGGTACACGTGTGTGTGCCCCGACGGCTTTCTGCTCGACTCGTCCC
GCAGCAGCTGCATCTCCCAACACGTGATCTCAGAGGCCAAAGGGCCCTGCTTCCGCGTGTCTCCGCGACGGCGGGT
GTTCCGCTGCCATTCTGCGGAACATCACTAAACAGATCTGCTGCTGCAGCCGCGTAGGCAAGGCCTGGGGCCGGG
GCTGCCAGCTCTGCCACCCCTTCGGCTCAGAGGGTTTCCGGGAGATCTGCCCGGCTGGTCTGTTTACCACTACT
CGGCCTCCGACCTCCGCTACAACACCAGACCCCTGGGCCAGGAGCCACCCCGAGTGTCACTCAGCCAGCCTCGTA
CCCTGCCAGCCACCTCTCGGCCATCTGCAGGCTTTCTGCCACCCATCGCCTGGAGCCCCGGCCTGAACCCCGGC
CCGATCCCCGGCCCCGGCCCTGAGCTTCCCTTGCCAGCATCCCTGCCTGGACTGGTCTGAGATTCTGAATCAG
GTCCCTCCTCCGGCATGTGTGAGCGCAACCCCCAGGTCTGCGGGCCAGGACGCTGCATTTCCCGGCCAGCGGCT
ACACCTGCGCTTGCGACTCTGGCTTCCGGCTCAGCCCCAGGGCACCCGATGCATTGATGTGGACGAATGTGCC
GCGTGCCCCCGCCCTGTGCTCCCGGGCGCTGCGAGAACTCACCAGGCAGCTTCCGCTGCGTGTGCGGCCCGGGCT
TCCGAGCCGGCCCCACGGGCTGCGGAATGCCTGGATGTGGACGAGTGCCACCGCGTGCCGCCGCCGTGTGACCTCG
GGCGCTGCGAGAACACGCCAGGCAGCTTCTGTGCGTGTGCCCCGCGGGGTACCAGGCTGCACCGCACGGAGCCA
GCTGCCAGGATGTGGATGAATGCACCCAGAGCCCAGGCCTGTGTGGCCGAGGGGCCTGCAAGAACCTGCCTGGCT
CTTTCGCTGTGTTTGCCCGGCTGGCTTCCGGGGCTCGGCGTGTGAAGAGGATGTGGATGAGTGTGCCAGGAGC
CGCCGCCCTGTGGGCGCGGCGCTGTGACAACACGGCAGGCTCCTTTCAGTGTGCCTGCCCTGCTGGCTTCCGCT
CCCGAGGGCCCCGGGGCCCCCTGCCAAGATGTGGATGAGTGTGCCGAAGCCCCCACCCTGCACCTACGGCCGGT
GTGAGAACACAGAAGGCAGCTTCCAGTGTGTCTGCCCCATGGGCTTCCAACCCAACACTGCTGGCTCCGAGTGCG
AGGATGTGGATGAGTGTGAGAACCACCTCGCATGCCCTGGGCAGGAGTGTGTGAACCTGCCCCGGCTCCTTCCAGT
GCAGGACCTGTCTTCTGGCCACCACCTGCACCGTGGCAGATGCACTGATGTGGACGAATGCAGTTCGGGTGCC
CTCCCTGTGGTCCCCACGGCCACTGCACTAACACCGAAGGCTCCTTCCGCTGCAGCTGCGCGCCAGGCTACCGGG
CGCCGTGCGGTGCGGCCGGGGCCCTGCGCAGACGTGAACGAGTGCTGGAGGGCGATTTCTGCTTCCCTCACGGCG
AGTGCTCAACACTGACGGCTCCTTTGCCTGTACTTGTGCCCCCTGGCTACCGACCCGGACCCCGCGGAGCCTCTT
GCCTCGACGTTGACGAGTGCAGCGAGGAGGACCTTTGCCAGAGCGGCATCTGTACCAACACCGACGGCTCCTTCG
AGTGCACTGTCTCCTCCGGGACACCGCGCTGGCCCCGACCTCGCCTCCTGCCTCGACGTGGACGAATGTGCGGAGC
GAGGCCAGCCCTGTGCGGGTGCAGCGCTGTGAGAACTCTCCCGGCTCCTACCGCTGTGTCCGGGACTGCGATC
CTGGGTACCACGCGGGCCCCGAGGGCACCTGTGACGATGTGGATGAGTGCCAAGAATATGGTCCCGAGATTGTG
GAGCCCAGCGTTGTGAGAACACCCCTGGCTCCTACCGCTGCACACCAGCCTGTGACCCCTGGCTATCAGCCCACGC
CAGGGGGCGGATGCCAGGATGTGAACGAGTGTGAAACACTACAGGGTGTATGTGGAGCTGCCCTGTGTGAAAATG
TCGAAGGCTCCTTCTGTGTCTGCCCCAACAGCCCCGAAGAGTTTGACCCCATGACTGGACGCTGTGTTCCCC
CACGAACCTTGTGTGGACGTTCCAGGCTCGCAGCCCCAGGCACCTGCTAGCCCCGTTCTGCCCGCCAGGCCAC
CTCCGCCACCCCTGCCCGGCCGACCCAGCACACCTAGGCAGGGCCCTGTGGGGAGTGGGCGCGGGAGTGCTACT
TTGACACAGCGGCCCGGATGCATGTGACAACATCCTGGCTCGGAATGTGACATGGCAGGAGTGCTGTGTACTG
TGGGTGAGGGCTGGGGCAGCGGTGCGCATCCAGCAGTGCCCGGGCACCGAGACAGCTGAGTACCAGTCATTGT
GCCCTCACGGCCGGGGCTACCTGGCGCCAGTGGAGACCTGAGCCTCCGGAGAGACGTGGACGAATGTGAGCTCT
TCCGAGACCAGGTGTGCAAGAGTGGCGTGTGTGTGAACACGGCCCCGGGCTACTCATGCTATTGCAGCAACGGCT

5909/6881
FIGURE 5446B

ACTACTACCACACACAGCGGCTGGAGTGCATCGACAATGACGAGTGCGCCGATGAGGAACCGGCCTGTGAGGGCG
GCCGCTGTGTCAAACTGTGGGCTCTTATCACTGTACCTGCGAGCCCCACTGGTGCTGGATGGCTCGCAGCGCC
GCTGCGTCTCCAACGAGAGCCAGAGCCTCGATGACAATCTGGGAGTGTGCTGGCAGGAAGTGGGGGCTGACCTCG
TGTGCAGCCACCTCTGGCTGGACCGTCAGGCCACCTACACAGAGTGTGCTGCCTGTATGGAGAGGCCTGGGGCA
TGGACTGCGCCCTCTGCCCTGCGCAGGACTCAGATGACTTCGAGGCCCTGTGCAATGTGCTACGCCCCCGCAT
ATAGCCCCCGCGACCAGGTGGCTTTGGACTCCCCTACGAGTACGGCCCAGACTTAGGTCCACCTTACCAGGGCC
TCCCATATGGGCCTGAGTTGTACCCACCACCTGCGCTACCCCTACGACCCCTACCCACCGCCACCTGGGCCCTTCG
CCCGCCGGGAGGCTCCTTATGGGGCACCCCGCTTCGACATGCCAGACTTTGAGGACGATGGTGGCCCTATGGCG
AATCTGAGGCTCCTGCGCCACCTGGCCCCGGGCACCCGCTGGCCCTATCGGTCCCGGGACACCCGCCGCTCCTTCC
CAGAGCCCGAGGAGCCTCCTGAAGGTGGAAGCTATGCTGGTTCCCTGGCTGAGCCCTACGAGGAGCTGGAGGCGG
AGGAGTGCGGGATCCTGGACGGCTGCACCAACGGCCGCTGCGTGCGCGTCCCCGAAGGCTTCACCTGCCGTTGCT
TCGACGGCTACCGCCTGGACATGACCCGATGGCCTGCGTTGACATCAACGAGTGTGATGAGGCCGAGGCTGCCT
CCCCGCTGTGCGTCAACGCGCGTTGCCTCAACACGGATGGCTCCTTCCGCTGCATCTGCCGCCCGGGATTGCGAC
CCACGCACCAGCCGCACCACTGTGCGCCCGCACGGCCCCGGGCCTGAGCCCTGGCACCCGCTGGCCGCCACCCG
CGCCCCGCACTCGGGGCCCCCTGCCGCGCATCCTGCAGCCCGCTTATGCGTATGTGCACGGGGCCGCCGCTGGA
CCTGGAGAAGGGACCTACGGACGCCTGGAAGCTGCGACGCCCTGCACTGCTCCCGCTCCACCAGCGCTCCAC
TGATGTCGTGGTCCCGGGCCTGGCCCAGGGGCCCTTTACATGCCCTCTCCCTTTTATAAAATTTTCATTAAAA
ACCACCTATTTTCT

5910/6881
FIGURE 5447

GTGGTTATCGCGGCGCCACCGGCCTCTGATCTCTGAGTCTTCTCCAACCCACAGACGTTTTTTGTTGCTCTGGT
TCCAGGACCTTCTCCACAAGTAGGCCATTTTCCCTGCCAGGTGTCTTTTTGACCTCTTGACCTCTGACTCAAAG
GTCAGCTCAAAGGTTCCGAAGTCCGGCCTGGGATGTGAGGGGGTACTGAACCTAAGTTCTCCGAATCTTTAGCCC
TGGGTCCCTAAGTCGCATCCTTAAGGCACCTCACTCTAGATCTGAGCCTTCATATCCCAAAGTCACTCATGAGTT
TCCACATCCAGCCCCAAAGAATGAGTTAACTCCTACTAACTCTCCACCTAAGACTCCCGAGGTAACCCAACCGGT
ACCACAGATCCGGTTCCGGATTTAAGGACCCACCCCTGTAAACCGTCAGGTGCCTTATGACTTGAGTCAGCCTCG
CAATTCCTGCTCCCGTGGTTTCAAATATTAGCCCTGGTCTTTTACACCCACTGCTCAGTCCCCAGATTCTGGAA
CTCAGCTCTTAAACCTTTAAATCTCCATCCCTGAGACCGTTCTCCGTTGGAGGATCCTTCCCTCCCCGCTTTCT
GAACCTCTCAACACCTCCTGTAGACCCCAAAATGACTTCTCCATGCTCTCCTCCCCCTAAAACCACCAATTTCTCC
TCCAAAAACCCCTGTACCCCAAGCCAGCAGCATTCATCTCCTCCTTACCCCCAAGTCCCCTGGACTTTTCAGC
TTTACCATCCCCCTCCCTGGAGTCAGCAGACCCCTGTTCCCCCACCAGTCCCCTGCCTCCTCCACCCGCTGCCAC
AGGGCCTGCTCCCCGTGATGTCTTCGGCCTGGAGAAGAGCCAGCTCCTGAAGGAGGCCTTTGATAAGGCCGGCCCC
GGTCCCCAAGGGCAGAGAAGATGTGAAGAGGCTTCTGAAACTACACAAGGACCGGTTCCGAGGTGACCTGCGGTG
GATCCTCTTCTGTGTCAGACCTGCCGTCCCTCATCCAAGAAGGCCCTCAATGCGGGCTGGTGGCCTTGTGGATGGC
AGGTACTCTCCTGTGCCCCCAGTGGCGTCCCCCTGGAGAGACTCATACGGGTGGCCACGGAAAGAGGCTACAC
GGCCCAGGGAGAGATGTTCTCAGCACCAGCTACGACGAGGACTTCAACCATGAGCCGTGTCAGAGGAAGGGCCAC
AAGGCACACTGGGCGGTGAGTGCAGGGGTCTGCTGGGTGTTCCGGCTGTGCCAGTCTCGGCTACACTGAGGAC
CCTGAGCTGCCGGGCTGTTCCACCCAGTGTGCGGCACGCCCTGCCAACCACCATCCCTGCCAGAGGAGGGCTCC
CCGGGAGCTGTCTACCTGCTGTCCAAGCAGGGCAAGAGTTGGCACTATCAGCTGTGGGACTACGACCAGGTCCGG
GAGAGCAACCTGCAGCTGACGACTTCTCGCCCTCACGGGCCACTGACGGCCGGGTGTACGTGGTGGCCGTGGGT
GGGGTACGGGCTGGCCTCTGTGGCCAGGCCCTGCTCCTCACACCACAGGACTGCAGCCATTAGCTGCGGCTGCGG
TCTCAGGCTGCAGCCTAGCTCGTTTTAAAGCCCATCTGGGAGCAGTTACCTGTGCCAGCCCCTCTACCTGTGTTA
GCAGATCTGGCAACCCCTGTAAGGGGGGTGCTAGATGGACCCGATTTGACAGATGGCAAGACTGAGGCCTGGAGAA
GTGGAATCACTGGCCTGAGGTACATGACTAGCACATGGCAAGATGGAGTCTCGTTCTGTCTCAGGCTGGAGT
GCGGTGGCGTGATCTCAGCTCACTCCAGCCTCCACTTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCCCCAAG
TAACTGGGATTACAGGCATGCACCACCATGCCTGGCTAATTTTTTTGTATTTTGTAGTAGAGACGGGGCTTTGCCAT
GTTGGCCAGGCTGGTCTCGAACTCCTGACCTTGAGTAATCCACCCGCTCGGCCTCCCAAAGTGTGGGATTACA
GGTGTGAGCCACTGAGCCCGGCCACAGTGCAGTATTTCTAACCAGTGATCAGGGTAAAGAGGATGCGTGTCCACC
ATCCCAGCCCTGATCAGCCTGTCTGTGCATCCCCATCCCAGCCAGGGCTGGAGCAGCCTTGCTCACCCTGTG
TCCCCTGCATTGTAACACATCCAGGCACAAGAATAGCCGCCAGTGACTGCCAAGTGAGTGAACCAGCCTGCTTG
GAGCCTGCCTCTTTCCCAAAGTGTCTATTATCCTGTTACCCACCCAGCCACGTGTCCAAATACACTCCAGATG
CAAAATAAAAAGCTCTACGACA

5911/6881
FIGURE 5448

GAATTCCTGACTTCCTTTTTCGGAGGAAGATCCTTGAGCAGCCGACGTTGGGACAAAGGATTGGAGAAACCCAGG
GCTAAAGTCACGTTTTTTCCTCCTTTAAGACTTACCTCAACACTTCACTCCATGGCAGTTCCCGAGACCCGCCCTA
ACCACACTATTTATATCAACAACCTCAATGAGAAGATCAAGAAGGATGAGCTAAAAAAGTCCCTGTACGCCATCT
TCTCCCAGTTTGGCCAGATCCTGGATATCCTGGTATCACGGAGCCTGAAGATGAGGGGGCCAGGCCTTTGTCTATCT
TCAAGGAGGTGAGCAGCGCCACCAACGCCCTGCGCTCCATGCAGGGTTTCCCTTTCTATGACAAACCTATGCGTA
TCCAGTATGCCAAGACCGACTCAGATATCATTGCCAAGATGAAAGGCACCTTCGTGGAGCGGGACCGCAAGCGGG
AGAAGAGGAAGCCCAAGAGCCAGGAGACCCCGGCCACCAAGAAGGCTGTGCAAGGCGGGGGAGCCACCCCGTGG
TGGGGGCTGTCCAGGGGCTGTCCCGGGCATGCCGCCGATGACTCAGGCGCCCCGCATTATGCACCACATGCCGG
GCCAGCCGCCCTACATGCCGCCCCCTGGTATGATCCCCCGCCAGGCCTTGACCTGGCCAGATCCCACCAGGGG
CCATGCCCCCGCAGCAGCTTATGCCAGGACAGATGCCCCCTGCCAGCCTCTTTCTGAGAATCCACCGAATCACA
TCTTGTTCTCACCAACCTGCCAGAGGAGACCAACGAGCTCATGCTGTCCATGCTTTTCAATCAGTTCCTTGGCT
TCAAGGAGGTCCGTCTGGTACCCGGGCGGCATGACATCGCCTTCGTGGAGTTTGACAATGAGGTACAGGCAGGGG
CAGCTCGCGATGCCCTGCAGGGCTTTAAGATCACGCAGAACAACGCCATGAAGATCTCCTTTGCCAAGAAGTAGC
ACCTTTTCCCCCATGCCTGCCCCCTTCCCTGTTCTGGGGCCACCCCTTTCCCCCTTGGCTCAGCCCCCTGAAGG
TAAGTCCCCCTTGGGGGCTTCTTGGAGCCGTGTGTGAGTGAGTGGTCGCCACACAGCATTGTACCCAGAGTCT
GTCCCCAGACATTGCACCTGGCGCTGTTAGGCCGGAATTAAAGTGGCTTTTGTAGGTTTGGTTTTTCACAAAAAA
AAGGAATTC

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FIGURE 5449

MAVPETRPNHTIYINNLLNEKIKKDELKKSLEYAIFSQFGQILDILVSRSLKMRGQAFVIFKEVSSATNALRSMQGF
PFYDKPMRIQYAKTDSDIIAKMKGTFFVERDRKREKRKPKSQETPATKKAVQGGGATPVVGAVQGPVPGMPPMTQA
PRIMHHMPGQPPYMPPPGMIPPPGLAPGQIPPGAMPPQQLMPGQMPPAQPLSENPPNHILFLTNLPEETNELMLS
MLFNQFFPGFKEVRLVPGRHDIAFVEFDNEVQAGAARDALQGFKITQNNAMKISFAKK

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FIGURE 5450

CGGACGAGGCACGAGTGAGGGGGGAGGCGGTGGCGGCGGCCATTTTGAGCCGCTGCCGCCATTGGAGTGGGCCCC
CCCCCTTTCCCCCTTCGCCTCCTGACAGGAAAGGTTTAAGGGGGACAGAGCCCTGGGAGGCCGGGCGGGGCTCGG
GGGCCACCCCGGGGGCCCGGGCCATGGATGTGCGCCGTCTGAAGGTGAACGAACTTCGCGAGGAGCTGCAGCGCC
GCGGCCTGGACACTCGAGGCCCTCAAGGCCGAGCTTGCTGAGCGGCTGCAGGCGGCGTTGGAGGCCGAGGAGCCTG
ACGACGAGCGGGAGCTCGACGCCGACGACGAACCGGGGCGACCCGGGCACATCAACGAGGAGGTGAGACCGAGG
GGGGCTCCGAGCTGGAGGGGACCGCGCAGCCACCGCCGCGCCGGGCTGCAGCCGCACGCGGAGCCCGGCGGCTACT
CGGGGCCGGACGGACATTATGCCATGGACAATATTACCAGGCAGAACCAATTCTACGATACCCAAGTCATCAAAC
AAGAAAACGAGTCAGGCTACGAGAGGAGACCCTGGAATGGAGCAGCAGCAGGCCCTATCGTCCAGAAATGAAGA
CAGAGATGAAGCAAGGAGCACCCACCAGCTTCCCTCCCGCTGAAGCTTCTCAACTCAAGCCAGACAGGCAGCAAT
TCCAGAGTCGAAAAGAGGCCTTATGAAGAAAACCGGGGACGGGGGTACTTTGAGCACCGAGAGGATAGGAGGGGCC
GCTCTCCTCAGCCTCCTGCTGAAGAGGATGAAGATGACTTTGATGATACCCTTGTGCTATTGACACCTATAACT
GCGACCTCCACTTCAAGGTGGCCCGAGATCGGAGTAGTGGCTATCCGCTCACAATTGAGGGCTTTGCATACCTGT
GGTCAGGAGCCCGTGCCAGCTATGGGGTCAGAAGGGGCCGTGTATGCTTCGAGATGAAGATCAATGAGGAAATCT
CCGTGAAGCACCTTCCGTCTACAGAGCCTGACCCCCACGTGGTCCGTATCGGCTGGTCCCTGGACTCCTGCAGCA
CCCAGCTAGGCCGAAGAGCCTTTCTCCTATGGCTATGGAGGCCTGGGAAGAAGTCCACCAATAGCCGTTTGA
ACTACGGAGACAAGTTTGCAGAGAACGATGTGATTGGCTGCTTTGCGGATTTTGAATGTGGAAATGACGTGGAAC
TGTCTTTTACCAAGAATGAAAGTGGATGGGCATTGCTTTCCGAATCCAGAAGGAAGCCTTGGGGGGTCAGGCC
TCTATCCTCATGTCTGGTGAAGAATTGCGCAGTGGAGTTCAACTTCGGACAGAGAGCAGAGCCCTACTGTTCTG
TCTCCCGGGGTTTACCTTCATCCAGCACCTTCCCTTAGTGAGCGTATCCGGGGCACCGTTGGACCAAAGAGCA
AGGCAGAATGTGAGATTCTGATGATGGTGGGCTGCCTGCTGCTGGCAAGACCACATGGGCCATCAAACATGCAG
CCTCCAACCCTTCCAAGAAGTACAACATCCTGGGTACCAATGCCATCATGGATAAGATGCGGGTGATGGGCCTAC
GCCGCGAGCGGAACTATGCTGGCCGCTGGGATGTCTGATCCAGCAGGCCACCCAGTGCCTCAACCGCCTCATCC
AGATTGCTGCCCGCAAGAAACGCAACTATATCCTAGATCAGACAAATGTTTATGGGTCAGCCCAGAGACGAAAA
TGAGACCATTGGAAGGCTTCCAGCGCAAAGCTATTGTAATTTGTCCCACTGACGAGGACCTAAAAGACCGAACA
TAAAGCGAACCGACGAGGAAGGGAAGGATGTCCAGATCATGCGGTCTTAGAAATGAAAGCCAACTTCACGTTGC
CAGATGTTGGGGACTTCTGGATGAGGTTCTGTTTATTGAGCTGCAGCGGGAGGAAGCGGACAAGCTAGTGAGGC
AGTACAACGAGGAAGGCCGCAAGGCTGGGCCACCCCTGAAAAGCGCTTTGACAACCGAGGTGGTGGTGGCTTCC
GGGGCCGCGGGGGTGGTGGTGGCTTCCAGCGCTATGAAAACCGAGGACCCCTGGAGGCAACCGTGGCGGCTTCC
AGAACCGAGGGGGAGGCAGCGGTGGAGGAGGCAACTACCGAGGAGGTTTCAACCGCAGCGGAGGTGGTGGCTATA
GCCAGAACCCTGGGGTAACAACAACCGGGATAACAACAACCTCCAACAACAGAGGCAGCTACAACCGGGCTCCCC
AGCAACAGCCGCCACCACAGCAGCCTCCGCCACCACAGCCACCACCCAGCAGCCACCACCAGCTACA
GCCCTGCTCGGAACCCCCCAGGGGCCAGCACCTACAATAAGAACAGCAACATCCCTGGCTCAAGCGCCAATACCA
GCACCCCCACCGTCAGCAGCTACAGCCCTCCACAGCCGAGTTACAGCCAGCCACCCTACAACCAGGGAGGTTACA
GCCAGGGCTACACAGCCCCACCGCCTCCACCTCCACCACCACCTGCCTACAACCTATGGGAGCTACGGCGGTTACA
ACCCGGCCCCCTATACCCACCGCCACCCCTTGCACAGACCTACCTCAGCCCAGCTATAACCAGTATCAGC
AGTATGCCCAGCAGTGGAACCAGTACTATCAGAACCAGGGCCAGTGGCCGCCATACTACGGGAACCTACGACTACG
GGAGCTACTCCGGGAACACACAGGGTGGCACAAGTACACAGTAGCCAGTGTGACCCAGAGGCTCCCGGAGGCCCC
TGCCGGCTTCCCTCCACCAGCGCTGCCTCGGCCCTCCTCTGCCCCCGCCAGATCCCGTGGTGTGGGGATGGGG
TCATCCCAGGGCTGCCTCCCTCCAGCCACTGCCTCCCTCTGAGGGGCTTCCCTCCCTCCATAGGGCCAGGCA
TTTTTTTCTGGATTCAAACAGGCAACAATGACCTTTTATTTTCTGTTTGTCCCCACCTCCCCAGCCTTCCACCTC
CTGTTCTTCTACCTTCTTCTTTTGAATAAATCCCCACCTCCCTTGATCATACAGTGAGGCTACAGTGAC
TGAGGGGAGAAATCCCTCCTGTTCACTCTCCCAACCCTGCTCCAGCCCTCAGCTTCCAGACCCCTCATGCAGTT
GGTTGTAAATTTCTCCAGGAGCTGTTTTACTGTCTACTTTTTCAGGATTAATAAAAAAAAAATCAAACTTAAAAA
AAAAGTTTAAAAAGCAAAATGGGGAGGGGGAGGAAGCAGTGACTTTTTTTTGGTAATTATGCGCTTTTTTTTAAAT
TTTAGAATTTGTCTTTTACTGTGGTGGGCTGTTGATATTTTATCAAGATAAGCATTCTTTCTGAGTTTCCAG
GTGACTGAGGAAGAGCCACAAAACAAAACACAACAAAACCAAAACC

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FIGURE 5451

GCTTGGGCGCAGCGGTGCACCCGACCCCGGAACATTCTCAGGCGAAAGTGTTCTTTCGCTGCGTGGGCGCGAGGCT
 TAGTGTGCGGGGCCCCGCCGGGCGGTTGAAAAGTCCGAGAGAATCAGGATGGAGGCGCGTGGCGACGGCGACGGCGG
 CGAAGGAACCCGATAAAGGGCTGCATAGAGCCTGGACCTGGGCACTGGGGTGAGCTGAGCCGGACACCACTCCCAT
 CTAACCCCCAGGACAAAGTGGAAGCAGCTGAGGCAACACCAGTGGCCCTGGACAGTGACACCTCCGGGGCTGAAA
 ATGCAGCAGTGAGTGCTATGCTGCACGCTGTAGCCGCCAGCCGCTGCCTGTTTGCAGCCAGCAGAGGGTGAAC
 CCGACTTGACAGAGCATGAGAAAAGTGGCCATCCTGGCCAGCTGTACCACGAGAAGCCACTGGTGTTCTTGAGC
 GCTTCCGCACAGGCCTCCGTGAGGAGCATCTGGCCTGCTTTGGCCACGTGCGTGGCGACCACCGTGACACTTCT
 ACTGTGCTGAGGTGGCCCGGACGGGCACTGCCCGCCCCGACCCCTGCGTACCCGCTGCGTAACCGGCGCTATG
 CTGCCCTGCGAGAGCTGATCCAAGGGGGCGAGTACTTCAGTGATGAGCAGATGCGGTTCCGGGCCCCCTGCTAT
 ATGAGCAGTACATCGGGCAGTATCTACCCAGGAGGAGCTCAGTGCCCGCACCCCAACCCACCAGCCCCCAAGC
 CCGGGTCCCCCGGGAGACCTGCTTGCCCGCTCTCCAATTGCTGCTCCAGTCTACGAGGAGCGGGAGCTACAGC
 AGCGTCTGCTCCAACAGCAGGAGGAGGAGGAGGCTGCTTGAGGAAGAGGAAGAGGAGGAGGACAGTGACGAGG
 AAGACCAGAGGTCAGGCAAGGACTCGGAGGCTGGGTTCCCGACTCGGAGGAGAGGCTGATCCTGCGAGAGGAGT
 TCACCAGCCGCATGCACCAGCGCTTCTAGATGGCAAGGACGGGGACTTTGACTACAGCACAGTAGACGACAACC
 CCGACTTCGACAACCTCGACATCGTGGCACGGGATGAGGAGGAGAGGTACTTTGATGAGGAAGAACCTGAGGATG
 CGCCAGCCCAGAGCTGGATGGGGACTGATGGCCGCCACCCTTCCCACCGCTGCCCCATCCCCATCCCCAACAA
 GGCAGCTGATTCCAGGCCTGCTCAGTGACCCTTTCTCTAGGGGGACATCAGGGCAGTGCCCCACAACCCACACAC
 ACCACCATCTCACTGGGTCTAGTCTCATCTCAGACAACCCCCACCCCCACTGTTTCTGGGGTTCCCTTTCTCATC
 TCTCCCACCTGTCTCCTGCCCTGTCTTTCTTGGTGTCTGTCTGGGCTTCTTTCTGTCTCTTTCTGTCTTTCTG
 TCTCTCTCCCTACCCCGCTCCCTCTTTCCAGTGCTCTGGCTGGCTGTCTCTCCCTTTCTCCCCCTCTCTCTCTG
 CCTTAGGCTCTGTCTCCACCGCAGGGGCCAAGGTGAAAAGTCTCCCTTGCCGGAGGCCAGCTGGCAGGGCCTTT
 CGTGGCTGGAAGTGGCCAGTTTGGTTCCGGTGCTGACCCCTAGGCCCCAGCGCAGCTGCCTCCCCTGCTGTCTGT
 CTCCCCCTCTCTGTTTATGTCTGCGCTGTGTCTCACACTCAGAGCCTCCTTGCTTCTGTTAGGTTCCCATCTCTC
 CTCTGCTCACTCTGGGCTCTTCTTTCTACTTGTACATTTCCACCTCTCTAGGCCTCTGCTCTCACTGTCCCT
 CTCTGTCTGTCTCTCAGCCTTTATCTCTGGGTTTTGATCCCCCACTCCAGGCTCTGGGCCCCCTTCTTCCCCCTC
 CCTCAAACCTGGCTGCTATAGGCAGCAGAACCTTGACCACTGAGTAATACAGCCCCAGGGGAGGGAGGAGACCCC
 AGGCAGGGAGGATGGGGGCGAGCTCTTCTCTCCCCAGGACCCAGGCTGTGGATCAGGGGCTGCCAGCTTGAG
 TGTAGAGGGAGGGGGGACTCTACCCTTCTCAGCCCCACCAGCCCCCTCTGCCCAACCACAATTTTCCCTTCTC
 CGCCTTCTCTCCCCCTCTCTGTTTACACTCCCCAAATGCGCACAGGCTGTTATCATGGGTCTGAGTCATCCAC
 ACACAGCCTGCCCCAGCGTCCCTGCCCCAGCTGGCCGAGGGCCCCGCCCATGGAGCCCCCTGCCGCCCTGGGC
 TAATGGGAGCCAGATGGCCGCTGGTGACTCAGCCACCGGGCCTGTGGGAACCCAGGCGTCCCGCCTTCCCATGC
 CCCCACACCCGGCTCCTGCTCCCCCAGCAGACACACAGGAGGGCCTGGCCACTGTTGAGGGGGCACACAGGGC
 AAGGCTACCAAGTCTGGGGCTTAGGGACTCCTCATGCCTCTGAGATGGAATGGTGGTATCCTGCCGTGGCCAAGC
 CTGAAGGACCTCAAAGTGCCTCCTGGAGTCCACGGTTCTTGACCTCCGAGCCTCAGCTATGCCCTCTGGGTCA
 ACCAGAATTAGAGCCAGACAGGAAAAGTGAGAGCTGGATGGAGGCAGACAAGATGCTCAGAGCGACTATTAAAGA
 ACGAAAGCCTCTGTACGGAGCGCTTCTGTCTCTGTCTAGGCCCGAGCGAAGTGCTGACACCGGGTTGGATCCT
 CAGATGGCCCCATGAACTAGTGAAGTGGGTCAAAGGAGGCCTGGAAAGATGTTGCTTCTCAAGGCCACTCGGCC
 ATCAGAGGCAGAAATGAAACAGGAACCCAGGCCTAGAATCACAAAGGTCTAGAAACCACTTGCGTGTCTGGCCT
 CTCAGGTGTCTAGGGCCATCCAGAGTGAGACAGCATTGGAGGGACAAGTGTGCATGCAGATGTCTCAGACGGGAA
 GGTTTGAGAAGGGTCAGATGGTAGGCGGGCCTAACAAAGGGCTCCGTGCTAGCCACTGTCCCGCACACAGACAGGA
 TCAGGTCTCTTGATATGGAGATCAGTCCCCAAATCACTGAATTGTCCAGCAGTGCTATGCCCTAGGTACTACC
 AATATCACTCCTCTATTTCCAGAGGAGGAAGCAGCAGCTAGACTCCAGGACCTTGGGGTCATATCTCTCAGAAA
 GCCAAGAGTGCAGGATGAGAGCTGTCTGTCTCTTACCTGCCTGTATTTGTGCCCATTTTTTAAAGAGCAGAGGGC
 CTGGGCCACAGGAAAAGGTATCAGCCCTTGGTGATAGGCACATTTTTTACCAGTCTATCATTTGGTCATTAAATTT
 GTTTACAATATACTTTGCTATAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5452

MEAVATATAAKEPDKGCIEPGPGHWGELSRTPVPSKPODKVEAAEATPVALDSDTSGAENAAVSAM LHAVAASRL
PVCSQQQGEFDLTEHEKVAILAQLYHEKPLVFLERFRTGLREEHLACFGHVVRGDHRADFYCAEVARQGTARPRTL
RTRLRNRRYAALRELIQGGEYFSDEQMRFRAPLLYEQYIGQYLTQEELSARTPTHQPPKPGSPGRPACPLSNLLL
QSYEERELQQRLLQQQEEEEACLEEEEEEDSDEEDQRSGKDSEAWVPDSEERLIILREEFTSRMHQRFLDGKDGD
FDYSTVDDNPDFDNLDIVARDEEERYFDEEEPEDAPSPELDGD

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FIGURE 5453

ACCTCCCTCCGCGGAGCAGCCAGACAGCGAGGGCCCCGGCCGGGGGCAGGGGGGACGCCCCGTCCGGGGCACCCC
CCCCGGCTCTGAGCCGCCCGCGGGGCCGGCCTCGGCCCGGAGCGGAGGAAGGAGTCGCCGAGGAGCAGCCTGAGGC
CCCAGAGTCTGAGACGAGCCGCCGCCGCCGCCGCTGCGGGGAGGAGGGGGAGGAGGAGCGGGAGGAGGGGACG
AGCTGGTTCGGGAGAAGAGGAAAAAACTTTTGGAGACTTTTCCGTTGCCGCTGGGAGCCGGAGGCGCGGGGACCTC
TTGGCGGACGCTGCCCCGCGAGGAGGCAGGACTTGGGGACCCCAGACCGCCTCCCTTTGCCGCGGGGACGCTT
GCTCCCTCCCTGCCCCCTACACGGCGTCCCTCAGGCGCCCCCATTCCGGACCAGCCCTCGGGAGTCGCCGACCCG
GCCTCCCGCAAAGACTTTTCCCCAGACCTCGGGCGCACCCCTGCACGCGCCTTCATCCCCGGCTGTCTCCTG
AGCCCCCGCGCATCCTAGACCCTTTCTCCTCCAGGAGACGGATCTCTCTCCGACCTGCCACAGATCCCCTATTCA
AGACCACCCACCTTCTGGTACCAGATCGCGCCCATCTAGGTTATTTCCGTGGGATACTGAGACACCCCGGTCCA
AGCCTCCCTCCACCACTGCGCCCTTCTCCCTGAGGACCTCAGCTTTCCCTCGAGGCCCTCCTACCTTTTGCCGG
GAGACCCCCAGCCCTGCAGGGGCGGGGCTCCCCACCACACCAGCCCTGTTTCGCGCTCTCGGCAGTGCCGGGGG
GCGCCGCTCCCCCATGCCGCCCTCCGGGCTGCGGCTGCTGCCGCTGCTGCTACCGCTGCTGTGGCTACTGGTGC
TGACGCTGGCCGGCCGGCCGCGGGACTATCCACCTGCAAGACTATCGACATGGAGCTGGTGAAGCGGAAGCGCA
TCGAGGCCATCCGCGGCCAGATCCTGTCCAAGCTGCGGCTCGCCAGCCCCCGAGCCAGGGGGAGGTGCCGCCCCG
GCCCCGCTGCCCCGAGGCCGTGCTCGCCCTGTACAACAGCACCCGCGACCGGGTGGCCGGGGAGAGTGCGAACC
AGCCCCGAGCCTGAGGCCGACTACTACGCCAAGGAGGTACCCGCGTGCTAATGGTGGAAACCCACAACGAAATCT
ATGACAAGTTCAAGCAGAGTACACACAGCATATATATGTTCTTCAACACATCAGAGCTCCGAGAAGCGGTACCTG
AACCCGTGTTGCTCTCCCGGGCAGAGCTGCGTCTGCTGAGGCTCAAGTTAAAAGTGGAGCAGCAGCTGGAGCTGT
ACCAGAAATACAGCAACAATTCTGGCGATACCTCAGCAACCGGCTGCTGGCACCCAGCGACTCGCCAGAGTGGT
TATCTTTTGTATGTACCGGAGTTGTGCGGCAGTGGTTGAGCCGTGGAGGGGAAATTGAGGGCTTTTCGCTTAGCG
CCCACTGCTCCTGTGACAGCAGGGATAACACACTGCAAGTGGACATCAACGGGTTCACTACCGGCCCGGAGGTG
ACCTGGCCACCAATTCATGGCATGAACCGGCCCTTCTGCTTCTCATGGCCACCCGCTGGAGAGGGCCAGCATC
TGCAAAGCTCCCGGCACCGCCGAGCCCTGGACACCAACTATTGCTTCAGCTCCACGGAGAAGAAGTGTGCGTGC
GGCAGCTGTACATTGACTTCCGCAAGGACCTCGGCTGGAAGTGGATCCACGAGCCCAAGGGCTACCATGCCAACT
TCTGCCTCGGGCCCTGCCCCTACATTTGGAGCCTGGACACGCAGTACAGCAAGGTCCTGGCCCTGTACAACCAGC
ATAACCCGGGCGCCTCGGCGGCGCCGTGCTGCGTGCCGCAGGCGCTGGAGCCGCTGCCCATCGTGTACTACGTGG
GCCGCAAGCCCAAGGTGGAGCAGCTGTCCAACATGATCGTGCGCTCCTGCAAGTGCAGCTGAGGTCCCGCCCCGC
CCCGCCCCGCCCCGGCAGGCCCGGCCCAACCCGCCCCGCCCCGCTGCCTTGCCCATGGGGCTGTATTTAAGG
ACACCCGTGCCCAAGCCCACCTGGGGCCCCATTAAAGATGGAGAGAGGACTGCGGATCTCTGTGTATTGGGCG
CCTGCCTGGGGTCTCCATCCCTGACGTTCCCCCACTCCCACTCCCTCTCTCTCCCTCTCTGCCTCCTCCTGCCTG
TCTGCACTATTCTTTGCCCGCATCAAGGCACAGGGGACCAGTGGGGAACACTACTGTAGTTAGATCTATTTAT
TGAGCACCTTGGGCACTGTTGAAGTGCCTTACATTAATGAATCATTAGTCACCATAGCAACACTCTGAGATGC
AGGGACTCTGATAACACCCATTTTAAAGGTGAGGAAACAAGCCAGAGAGGTTAAGGGAGGAGTTCTGCCCACC
AGGAACCTGCTTTAGTGGGGGATAGTGAAGAAGACAATAAAAGATAGTAGTTCAGGCCAGGCGGGGTGGCTCACG
CCTGTAATCCTAGCACTTTTGGGAGGCAGAGATGGGAGGATTACTTGAATCCAGGCATTTGAGACCAGCCTGGGT
AACATAGTGAGACCCTATCTCTACAAAACACTTTTAAAAAATGTACACCTGTGGTCCCAGCTACTCTGGAGGCTA
AGGTGGGAGGATCACTTGATCCTGGGAGGTCAAGGCTGCAG

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FIGURE 5454

CAGCCGCACGTGGGCTCGGCGCGATGGAGGAGGAGACGCATACTGACGCCAAAATCCGTGCTGAAAATGGAACAG
GGTCCAGCCCTCGGGGTCCTGGCTGCAGCCTCCGGCACTTTGCCTGCGAACAGAACCTGCTGTCGCGGCCAGATG
GCTCTGCTTCCTTCCTGCAAGGTGACACCTCTGTCTTGGCGGGTGTGTACGGGCCGGCCGAGGTGAAGGTCAGCA
AAGAGATTTTCAACAAGGCCACACTCGAAGTGATCCTGAGGCCGAAGATTGGGCTGCCTGGTGTTCAGAGAAGA
GCCGGGAGCGGCTGATCAGGAACACGTGCGAGGCGGTGGTGTGGGCACGTTGCACCCCCGCACCTCCATCACCG
TGGTGTGTCAGGTTGTGAGCGATGCCGGCTCTCTCTTGGCCTGTTGTCTGAATGCCGCTGCATGGCATTGGTGG
ATGCAGGTGTGCCCATGCGGGCTCTCTTCTGTGGGGTCGCCTGCGCCCTGGACTCTGATGGGACCCTCGTGCTGG
ATCCTACATCCAAGCAAGAAAAGGAGGCCCGGGCAGTCCTGACCTTTGCCCTGGACAGCGTGGAACGGAAGCTGC
TGATGTCCAGCACCAAGGGGCTCTACTCAGACACTGAGCTCCAGCAGTGCCCTGGCTGCGGCCCAGGCCGCTTCGC
AACACGTCTTCCGTTTCTACCGGAATCGCTGCAGAGGCGTTACTCCAAGAGCTTGAGGCAAGCTGGGGCAAGGGG
CCGCTCCCATTGCCTCCACCCACTCACCCCTACAGCCTGAAGCAAACCAGCAGCCCAGCCTTGCCTCTCTGACC
CATGGGCTCCTTGAGCCTGCAGCTCTGTAACCACAGGGCTCCTGTGGGGAGGCCCTTGGCCTGTGACAGCCCCAG
GCCTGGGGGCACAGATCCCCCAGCAAGGATAACATTCAAAGGAGCTCACATTTATGGAATGGATGAATCAATAA
ATTAATTCACTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5455

MEEETHDAKIRAENG TGSSPRGPGCSLRHFACEQNLLSRPDGSASF LQGDTSVLAGVYGPAEVKVSKEIFNKAT
LEVILRPKIGLPGVAEKS RERLIRNTCEAVVLGTLHPRTSITVVLQVVSDAGSLLACCLNAACMALVDAGVPMRA
LFCGVACALDSDGTLVLDPTSKQEKEARAVLTFALDSVERKLLMSSTKGLYSDELQQCLAAAQAASQHVFRFYR
ESLQRRYSKS

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FIGURE 5456

GTTAGCCAAGATGGCGGTAGCGATCGCTGCAGCGAGGGTCTGGCGGCTAAACCGTGGTTTGAGCCAGGCTGCCCT
CCTGCTGCTGCGGCAGCCTGGGGCTCGGGGACTGGCTAGATCTCACCCCCCAGGCAGCAGCAGCAGTTTTCATC
TCTGGATGACAAGCCCCAGTTCACAGGGGCTCGGCGGAGTTTATAGATAAGTTGGAATTCATCCAGCCCAACGT
CATCTCTGGAATCCCCATCTACCGCGTCATGGACCGGCAAGGCCAGATCATCAACCCAGCGAGGACCCCCACCT
GCCGAAGGAGAAGGTGCTGAAGCTCTACAAGAGCATGACACTGCTTAACACCATGGACCGCATCCTCTATGAGTC
TCAGCGGCAGGGCCGGATCTCCTTCTACATGACCAACTATGGTGAGGAGGGCACGCACGTGGGGAGTGCCGCCGC
CCTGGACAACACGGACCTGGTGTGTTGGCCAGTACCGGGAGGCAGGTGTGCTGATGTATCGGGACTACCCCTGGA
ACTATTTCATGGCCAGTGCTATGGCAACATCAGTGACTTGGGCAAGGGGCGCCAGATGCCTGTCCACTACGGCTG
CAAGGAACGCCACTTCGTCACTATCTCCTCTCCACTGGCCACGCAGATCCCTCAGGCGGTGGGGGCGGCGTACGC
AGCCAAGCGGGCCAATGCCAACAGGGTCGTCTGTGTTACTTTCGGCGAGGGGGCAGCCAGTGAGGGGGACGCCCA
TGCCGGCTTCAACTTCGCTGCCACACTTGAGTGCCCCATCATCTTCTTCTGCCGGAACAATGGCTACGCCATCTC
CACGCCCACCTCTGAGCAGTATCGCGGCGATGGCATTGCAGCACGAGGCCCCGGGTATGGCATCATGTCAATCCG
CGTGGATGGTAATGATGTGTTTGCCGTATACAACGCCACAAAGGAGGCCCCGACGGCGGGCTGTGGCAGAGAACCA
GCCCTTCCTCATCGAGGCCATGACCTACAGGATCGGGCACCACAGCACCAGTGACGACAGTTCAGCGTACCGCTC
GGTGGATGAGGTCAATTACTGGGATAAACAGGACCACCCCATCTCCCGGCTGCGGCACATCTGCTGAGCCAAGG
CTGGTGGGATGAGGAGCAGGAGAAGGCCTGGAGGAAGCAGTCCCGCAGGAAGGTGATGGAGGCCTTTGAGCAGGC
CGAGCGGAAGCCCCAAACCCCAACCCCAACCTACTCTTCTCAGACGTGTATCAGGAGATGCCCGCCAGCTCCGCAA
GCAGCAGGAGTCTCTGGCCCGCCACCTGCAGACCTACGGGGAGCACTACCCACTGGATCACTTCGATAAGTGAGA
CCTGCTCAGCCCACCCCCACCCATCCTCAGCTACCCCGAGAGGTAGCCCCACTCTAAGGGGAGCAGGGGGACCTG
ACAGCACACCACTGTCTTCCCCAGTCAGCTCCCTCTAAATACTCAGCGGCCAGGGCGGCTGCCACTCTTCACCC
CTGCTCCTCCCGGCTGTTACATTGTCAGGGGACAGCATCTGCAGCAGTTGCTGAGGCTCCGTCAGCCCCCTCTTC
ACCTGTTGTTACAGTGCCTTCTCCAGGGGCTGGGTGAGGGCACATTAGGACTAGAAGCCCTCTGGGCATGGG
GTGGACATGGCAGGTCAGCCTGTGGAACCTGCGCAGGTGCGAGTGCCAGCAGAGGTCACGAATAAACTGCATCT
CTGCGCCTGGCTCTCT

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FIGURE 5457

MAVAIAAARVWRLNRGLSQAALLLLRQPGARGLARSHPPRQQQQFSSLDDKPQFPGASAEFIDKLEFIQPNVISG
IPIYRVMDRQGQIINPSEDPHLPKEKVLKLYKSMTLLNTMDRIYLESQRQGRISFYMTNYGEEGTHVGSAAALDN
TDLVFGQYREAGVLMYRDYPLELFMAQCYGNISDLGKGRQMPVHYGCKERHFVTISSPLATQIPQAVGAAYAANKR
ANANRVVICYFGEGAASEGDAHAGFNFAATLECPIIFFCRNNGYAISTPTSEQYRGDGIAARGPGYGIMSIRVDG
NDVFAVYNATKEARRRAVAENQPFLEAMTYRIGHHSTSDSSAYRSVDEVNYWDKQDHPISRLRHLLSQGWWD
EEQEKAWRKQSRRKVMEAFEQAERKPKPNPNLLFSDVYQEMPAQLRKQESLARHLQTYGEHYPLDHFDK

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FIGURE 5458

AGCAAGATGGCGGCTCCCTGGGCGTCCCTGCGCCTGGTCGCCCCCATGTGGAATGGGCGTATCAGGGGCATCCAT
CGCCTGGGTGCGGCAGTGGCCCCAGAGGGCAGTCAGAAGAAGAAAAGGACAATACTCCAGTTCCTGACCAACTAT
TTCTACGATGTGGAGGCTCTGAGGGATTACTTGCTCCAAAGGGAGATGTACAAGGTGCATGAGAAAAATCGATCT
TACACCTGGCTGGAGAAGCAACATGGTCCATACGGCGCAGGTGCCTTTTTTCATCCTGAAGCAGGGAGGCGCAGTC
AAGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTATGGCCATTTCTCTCAGGAGTTCTGGAATTTCTGTGAA
GTGCCTGTGGAAGCTGTGGATGCCGGTGACTGTGACATCAACTACGAGGGCCTGGATAACCTCCTCCGCCTGAAG
GAGCTCCAGTCCCTTGTGCTGTCAGCGCTGCTCCCACGTGGACGACTGGTGTCTCAGCCGCCTCTACCCACTGGCC
GACTCGTTGCAGGAGCTCTCGCTGGCCGGTTGCCCCCGCATCTCCGAACGGGGCCTCGCCTGCCTCCACCACCTC
CAGAACCTCCGCAGGCTGGACATCTCGGACCTCCCTGCCGTGTCCAACCTGGCCTCACTCAGATATTGGTGGAG
GAGATGCTGCCCAATTGCGAGGTTGTGGGAGTCGACTGGGCTGAGGGCCTGAAGTCAGGGCCGGAGGAGCAGCCT
CGGGACACAGCCAGCCCTGTCCCTGCCTAGCCTTTAGCCCTGTCCCCACTCACGTGGCTTCTCAGCGGGCTGCAT
GGAATGTCTGGTAGCTCACCACACTTCTGGCTTCCATTTGTCTTCACTCAACGTCAGGGTGGGGGAGTGGTGTCTG
GCCAATCACAGGAGAGAGCGTGAGTTCCAGTATTTATTCTGGCTGCCCTTGGCTAAAGGTCACAGCTCCTGTC
ACCCTGTTCAGGCAGCCCTTTCCATGCCCTGTTTCAGGCCTGGGGAGGTAAAGGCTCAGGCTGTTAGTAGCCGCAG
AGAGCCACACTCACCTTGTTCAGGAGACTCTTCTCAAAGTGTCTTATGTGAGTGCAGTGCATTTCTTGCAGGGA
CCCTGACTGACACAGGGGCTACTACTGACACTTTACAGGGATGGTTCTCCCCCGTGCAGGGCCGCTGTGCCCACT
GCAGGACATGCAGCATCCTTCGCCCCACTCCACTCACTAAAGGCCAGCGCACCCAGGCCCATAGTATTGCTGG
TTATGGATTTATTGACTTTATGTTCCAAATTCAGCTTTTTTCAGTTGGCAGTTTTTTGAAAGGGGATAAGCTTTGT
CAGTAGAGGGCACCAACAGGCATTATAGGAGGAAAGGCGCCTCCTTCGTGGTTCTTGTGTTGTTGTGCTTCTGCC
TCTGGACGCCGAGTGCATGTGGCTTCCCCAGCACCCAGCTCCTGAAGCACAGGCGGTCAGCAGCTGCCCTTGG
CACCTCCAGCCCTCAGAAGTTGCGTAGGAGACACAGCGCCTCCACTGAGGCACCTCTCTGGGAATAACGTTCCC
CAGCACCCCAAATGGATTTCCAGTCAATTCAGAAGCATTTTACCAGTGAAGCCCTCATTATTCCAGTTCAGTGT
AAAGCCAGTAATTCTCTATATTAACTTTCCCTGTTCAAGTT

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FIGURE 5459

MAAPWASLRVAPMWNGRIRGIHRLGAAVAPEGSQKKKRTILQFLTNYFYDVEALRDYLLQREMYKVHEKNRSYT
WLEKQHGPYAGAFFILKQGGAVKFRDKEWIRPDKYGHFSQEFWNFCEVPVEAVDAGDCDINYEGLDNLLRLKEL
QSLSLQRCSHVDDWCLSRLYPLADSLQELSLAGCPRISERGLACLHHLQNLRRLDISDLPAVSNPGLTQILVEEM
LPNCEVVGVDWAEGLKSGPEEQPRDTASPVPA

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FIGURE 5460

GGAGGCTGCAACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGAT
CACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGA
GCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGT
GGGATCCAGCTGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAA
GCGGAAAAAGCTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAG
ATGGAATCCAGGAAATCCAATCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTG
GCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTACTC
TCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGA
GTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGG
GGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTTTCCTTTTCGCCGCCCTCCTTCCGCCGCCCGCT
CCTTCCCTGTATCTTTTAAAGTTTCTTTCCTACCCTGTCCCCATTTTCTGGTAAGGTTTCTAGGAGGTCTGTTA
GGTGATACATCCTACAGCTTATTGGCTTAATATGTACTCTCCTTTGATGTGGTCTACTTGGGGCCGATTGGGAGAA
AGAGAAATCAATAGTGCAACTGTTTTGATAATGAATATTGACAAGTGTCTTTTGAATAAAGAACCAGTCC

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FIGURE 5461

ACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATC
GAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAG
CGAGAAGTTGAGGGAGAAAGGTGGGCCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGC
TGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAG
CTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAAGTCC
AGGAAATCCAACTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGT
TGGTGATCTTTAACTGGAAGGCTGCTTTCTCCTTTCGCCGCCCTCCTTCCGCCGCCGCTCCTTCCCTGTGTC
TTTTTCACCAAAGTGTCCGCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAAACAACATT
TAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGTATGTTGTGATGTACACATTTTGTAAATTACCTCTTT
TGTTGTTTTGTAGCAACCTTTTGTAACCATTCATATAATACCACAGCCCTGAAGCAGCGATCGAATCCCTTTC
TCACTTT

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FIGURE 5462

CCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATCGAG
GCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAGCGA
GAAGTTGAGGGAGAAAGGTGGGCCCCGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGG
TTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAGCTG
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAAGTCCAGG
AAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG
TGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA
AATATGAGGAAGAAAAGAAGATTGTGTTTTTGCCACTGATTTAGCCATGTGAAACTCATCTCATTACCCTTTTCT
GAGTTTGAAGCTGCTGTCTCTACAAGTGCCATCTCATTGTGCTTTGTATCAGTCAGTGCTGGAGAAATCTTGAAT
AGCTTATGTACAAAACTTTT

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FIGURE 5463

TCACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTG
AGCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGAGGTAAGAAGGTTATTGAAAACCGGGCC
TTAAAAGATGAAGAAAAGATGGAACCTCAGGAAATCCAACTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGAT
AGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAG
CTGGCAGAATCCCTTTGCCGAGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCT
GCTGAAGAAAAGTACTCTCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAG
GCGGAGACCCATGCTGAGTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAA
CTGAAATGCACCAAAGGGGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATG
TAGAACGCCTCAGTCTCACCCCTGCTGCTGCTCCTCCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCAC
CTTTGGAAACAACATTTAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGTATGTTGTGATG

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FIGURE 5464

MMQRSELSASSEKLREKGGPGNRGKKVIENRALKDEEKMELQEIQLREAKHIAEEADRKYE EVARKLVIIEGDLE
RTEERAELAESLCREMDEQIRLMDQNLKCLSAAEEKYSQKEDKYEEEIKILTDKIKEAETHAEFAERSVAKLEKT
IDDLEDKCLKCTKGEHLCTQRMLDQTLLDLNEM

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FIGURE 5465

GCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGGTTGAAGAGGAGCTGGAAGAAGCGGAAAAAGCTG
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAAGTCCAGG
AAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG
TGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA
AATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGAGTTTGCTGAGAGAT
CGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGGGGAGCACCTCTGTA
CACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGTAGAACGCCTCAGTCTCACCCCTGCTGCTGCT
CCTCCCTCTGAACCAGACTCCGCCTGAGGCCAGCCTGCCCCGAAGCTGACCTTTAATTGAGGGCTGATCTTTAACT
GGAAGGCTGCTTTCTCCTTT

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FIGURE 5466

ATGTCTAAGTCAGAGTGTCCCGAAGAGCCTGAACAGCTGAGGAAGCTCTTCATTGGAGGATTGAGCTTTGAAACA
ACTGATAAGAGCCTGAGAAGCCATTTTGAGCAATGGAGAATGCTCACGGACTGTGTGGTGGATAGAAGAGTTGTG
GAACCAAAGAGAGCTGTCTCAAGAGAAGATTCTCAAAGACCAGAACATCACCTAAGAGATTATTTTGAACAGTAT
GGAAAAATTGAAGTGACTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTCTAACCTTT
GATGACCGTGACTCCGTGGGTGGCTATGGCGGTTCCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAA

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FIGURE 5467

MSKSECPEEPEQLRKLFIGGLSFETTDKSLRSHFEQWRMLTDCVVDRRVVEPKRAVSREDSQRPEHHLRDYFEQY
GKIEVTEIMTDRGSGKKRGFAFLTDDRDSVGGYGGSSSSSSSYGSGRRF

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FIGURE 5468

CGCCCGACTTGTGCGCCCGGGAAACCCCGTCGTTCCCTTTCCCTGGCTGGCAGCGCGGAGGCCGCACGATGCCT
GGAGTTACTGTAAAAAGACGTGAACCAGCAGGAGTTTCGTCAGAGCTCTGGCAGCCTTCCTCAAAAAGTCCGGGAAG
CTGAAAGTCCCCGAATGGGTGGATACCGTCAAGCTGGCCAAGCACAAAGAGCTTGCTCCCTACGATGAGAACTGG
TTCTACACGCGAGCTGCTTCCACAGCGCGGCACCTGTACCTCCGGGGTGGCGCTGGGGTTGGCTCCATGACCAAG
ATCTATGGGGGACGTCAGAGAAACGGCGTCATGCCCAGCCACTTCAGCCGAGGCTCCAAGAGTGTGGCCCGCCGG
GTCCTCCAAGCCCTGGAGGGGCTGAAAATGGTGGAAAAGGACCAAGATGGCGGCCGCAAACCTGACACCTCAGGGA
CAAAGAGATCTGGACAGAATCGCCGGACAGGTGGCAGCTGCCAACAAGAAGCATTAGAACAAACCATGCTGGGTT
AATAAATTGCCTCATTCGTAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5469

MPGVTVKDVNQQEFVRALAAFLKKSGKLKVP EWDTVKLAKHKELAPYDENWIFYTRAASTARHLYLRGGAGVGSM
TKIYGGRQRNGVMP SHFSRGSKSVARRVLQALEGLKMVEKDQDGGRKLTPQGQRLDRIAGQVAAANKKH

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FIGURE 5470

GGGCGCCCCGCGGTCACTTCCGCGCGGACACCAGCCTTGCAAGAGCCCAGGGAGATGAAGACTTCGCCCCGAGGG
GCGGCCTCCCCAGGCCCTCCCGGCCTGGCCTGGTTCCCGTCAGCATCATCGGGGCTGAGGATGAGGATTTTGAG
AACGAGCTGGAGACAAACTCAGAAGAGCAAAACAGCCAGTTCCAGAGCCTGGAGCAGGTGAAGCGGCGCCCAGCC
CACCTCATGGCCCTCCTGCAGCACGTGGCCCTGCAGTTTGAGCCAGGACCCCTGCTTTGCTGTCTGCATGCCGAC
ATGCTGGGCTCACTGGGCCCCAAGGAGGCCAAGAAGGCCTTCTGGACTTCTACCACAGCTTCTGGAGAAGACA
GCGGTTCTCCGGGTGCCGTCCCTCCCAACGTCGCCTTTGAACTTGACCGCACTAGGGCTGACCTCATCTCCGAG
GATGTCCAGCGGCGGTTCGTGCAGGAGGTGGTGCAAAGCCAGCAGGTAGCCGTGGGCGGCGAGCTGGAGGACTTC
CGTTCCAAGCGGCTCATGGGCATGACGCCCTGGGAGCAGGAGCTGGCCAGCTGGAGGCTTGGGTTGGGCGGGAC
CGAGCCAGCTACGAGGCCCGGGAGCGGCACGTGGCGGAGCGGCTGCTCATGCACCTGGAGGAGATGCAACATACC
ATCTCTACCGACGAAGAAAAGAGTGCTGCCGTGGTCAACGCCATTGGCCTGTACATGCGCCACCTTGGGGTGCGG
ACCAAGAGTGGAGACAAGAAGTCCGGGAGGAACTTCTTCCGAAAAAGGTGATGGGGAACCGGCGGTCCGACGAG
CCTGCCAAGACCAAGAAGGGGCTGAGCAGCATCTGGATGCCGCCCGCTGGAACCGGGGAGAGCCCCAGGTTCCA
GATTTTCGACACCTCAAAGCAGAGGTTGATGCCGAGAAGCCAGGTGCTACAGACCGGAAGGGAGGCGTGGGGATG
CCCTCTCGGGACCGGAATATCGGGGCTCCTGGGCAGGACACCCCTGGAGTCTCTCTGCACCTCTGTCCCTGGAC
AGCCCAGACCGGGAACAGGTGCTGACGCCCCCTGGAGCTGGGGGACTCATCCCCGAGGGCCCAATGAGCCTG
GAGTCCTTGGCGCCCCCAGAGAGTACCGACGAGGGGGCCGAAACCGAGAGCCCCGAGCCTGGAGATGAGGGGAG
CCGGGGCGGTGCGGACTGGAGCTTGAACCAGAAGAGCCTCCCGGCTGGCGGGAACCTCGTCCCCCAGACACCCCTG
CACAGCCTGCCAAGAGCCAGGTGAAGCGGCAGGAGGTATCAGCGAGCTGCTGGTGACAGAGGCGGCCACGTG
CGCATGCTGCGGGTGCTGCACGACCTCTTCTTCCAGCCCATGGCAGAATGCCTGTTCTTCCCTTGGAGGAGCTG
CAGAACATCTTCCCCAGCCTGGACGAGCTCATCGAGGTGCATTCCCTGTTCTCGATCGCCTGATGAAGCGGAGG
CAGGAGAGTGGCTACCTCATCGAGGAGATCGGAGACGTGCTGCTGGCCCGGTTTGATGGTGCTGAGGGCTCCTGG
TTCCAGAAAATCTCCTCCCGCTTCTGCAGCCGCCAGTCATTTGCCTTAGAGCAGCTCAAAGCCAAGCAACGCAAG
GACCTTCGGTTCTGTGCCTTCGTGCAGGAAGCTGAGAGCCGCCCGCGGTGCCGCCCGCTGCAGCTGAAGGACATG
ATCCCCACGGAGATGCAGCGGCTGACCAAGTACCCCTGCTCCTGCAGAGCATCGGGCAGAACACAGAAGAGCCC
ACAGAACGGGAGAAAGTGGAGCTGGCAGCCGAGTGCTGCCGGGAAATTCTACACCACGTCAACCAAGCCGTGCGT
GACATGGAGGACCTGCTGAGGCTCAAGGACTATCAGCGGCGCCTGGACTTGTCCCACCTTCGGCAGAGCAGCGAC
CCTATGCTGAGCGAGTTCAAGAACCTGGACATCACCAGAAGAAATTGGTCCACGAGGGGCCCCACTGACGTGGCGG
GTGACTAAGGACAAGGCAGTGGAGGTGCATGTGCTGCTGCTGGACGACCTGCTGCTGCTGCTCCAGCGCCAGGAC
GAGCGGCTGCTGCTCAAGTCCCATAGCCGGACACTGACGCCACGCCGATGGCAAGACCATGCTGCGGCCCCGTG
CTGCGGCTCACCTCCGCCATGACCCGCGAGGTGGCCACCGATCACAAGCCTTCTACGTCTTTTTTACCTGGGAC
CAGGAGGCCCAGATATACGAGCTGGTGGCACAGACTGTGTGCGAGCGGAAAAACTGGTGTGCTCTCATCACTGAG
ACTGCCGGATCCCTGAAAGTCCCTGCCCCTGCTCTCGCCCTAAGCCCCGGGCCAGCCGAGCAGCACCCGAGAA
CCCCCTCTCAGCAGCTCTGAGAACGGCAATGGTGGCCGAGAGACGTCTCCAGCTGATGCCCCGACCGAGAGAATC
CTCAGTGACCTCCTGCCCTTCTGCAGACCAGGCCCGAGGGCCAGCTCGCTGCCACGGCCCTTCGGAAAGTGCTG
TCCCTGAAGCAGCTTCTGTTTCCGGCGGAGGAAGACAATGGGGCGGGGCTCCTCGAGATGGGGATGGGGTCCCCA
GGGGGCGGCCCCCTGAGCCCAGCACGGACCCAGGAAATCCAGGAGAACCTGCTCAGCTTGGAGGAGACCATGAAG
CAGCTGGAGGAGTTGGAGGAGGAATTTTGCCGCTGAGACCCCTCCTGTCTCAGCTTGGGGGGAACCTGTGCCCC
CAGCCTGGCTGCACTTGAAGGTTCCCGCCCAGGAAGGCCTTTTGCAAGAAGGAGAGGAATGGGGGAGAGGACGTGA
GGGACCACCCCCACCCACACAGCTGCCGACGATCTCACACCCCGAGGGCCTGAGGAGAGGGAGCTGTGGGCCAC
GCCTGGGAGGGGCCCAGCTGGGGTTACTGGCCCCGATGAGCCTCGGCCATCTCTCCCTCCTGCCCTCTGCTTGG
GGGACTCAGGGCTCATTCTGGAGGGCACCACGGTGACCCGGGCCATCTCAGTATTGCCTGTGGGGGCCACCCCT
CCACCCCCACCCCAAGTGCTTCGCTCTGTTTTTATACCTGAATTGGAGGGTTTATTTTTTAAATATATATTAT
CTAAGAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5471

MEDFARGAASPGPSRPGLVPSIIGAEDEDFENELETNSEEQNSQFQSLEQVKRRPAHLMALLQHVALQFEPGPL
LCCLHADMLGSLGPKEAKKAFIDFYHSFLEKTAVLRVPVPPNVAFELDRTRADLISEDVQRRFVQEVVQSQQVAV
GRQLEDFRSKRLMGMTWPWEQELAQLEAWVGRDRASYEARERHVAERLLMHLEEMQHTISTDEEKSAAVVNAIGLY
MRHLGVRTKSGDKKSGRNFFRKKVMGNRRSDEPAKTKKGLSSILDAARWNRGEPQVPDFRHLKAEVDAEKPGATD
RKGGVGMPSRDRNIGAPGQDTPGVSLHPLSLDSPDREPGADAPLELGDSSPQGPMSESLAPPESTDEGAETESP
EPGDEGEPPGRSGLELEPEEPPGWRELVPDTHSLPKSQVKRQEVISELLVTEAAHVRLRLVLDLFFQPMACEL
FFPLEELQNIFFPSLDELIEVHSLFLDRLMKRRQESGYLIEEIGDVLLARFDGAEGSWFQKISSRFCSRQSFALQ
LKAKQRKDP RFCAFVQEAESRPRCRLQLKDMIPTMQRLTKYPLLLQSIGQNTTEPTEREKVELAAECCREILH
HVNQAVRDMEDLLRLKDYQRRDLSHLRQSSDPMLSEFKNLDITKKKLVHEGPI TWRTKDKAVEVHVLLDDLL
LLLQRQDERLLLKSHSRTLTPDGTMLRPVLRRLTSAMTREVATDHKAFYVLTWDQEAQIYELVAQTVSERKN
WCALITETAGSLKVPAPASRPKPRSPSPSTREPLLSSSENGNGGRETSPADARTERILSDLLPFCRPGPEGQLAA
TALRKVLSLKQLLFPAAEEDNGAGPPRDGDGVPGGGPLSPARTQEIQENLLSLEETMKQLEEELEEEFCRLRPLLSQ
LGGNSVPQPGCT

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FIGURE 5472

CCGCCGAGCCTCTGTGCGGTGGGACCAACGGACGGACGGACGGACGGACGGACCGCGCACCTACCGAGGCGCGGGCGCTGC
AGAGGCTCCAGCCCAAGCCTGAGCCTGAGCCCGCCCCGAGGTCCCCGCCCGCCCGCCTGGCTCTCTCGCCGCG
GAGCCGCCAAGATGGGGGACAAGAAAGATGACAAGGACTCACCCAAGAAGAACAAGGGCAAGGAGCGCCGGGACC
TGGATGACCTCAAGAAGGAGGTGGCTATGACAGAGCACAAAGATGTGAGTGAAGAGGTCTGCCGGAATACAACA
CAGACTGTGTGACAGGTTTGACCCACAGCAAAGCCCCAGGAGATCCTGGCCCCGGGATGGGCCTAACGCACTCACGC
CACCGCCTACCACCCCAGAGTGGGTCAAGTTTTGCCGGCAGCTCTTCGGGGGCTTCTCCATCCTGCTGTGGATCG
GGGCTATCCTCTGCTTCTGGCCTACGGTATCCAGGCGGGCACCGAGGACGACCCCTCTGGTGACAACCTGTACC
TGGGCATCGTGCTGGCGGCCGTGGTGATCATCACTGGCTGCTTCTCCTACTACCAGGAGGCCAAGAGCTCCAAGA
TCATGGAGTCCCTCAAGAACATGGTGCCCCAGCAAGCCCTGGTGATCCGGGAAGGTGAGAAGATGCAGGTGAACG
CTGAGGAGGTGGTGGTCCGGGACCTGGTGAGATCAAGGGTGGAGACCGAGTGCCAGCTGACCTGCGGATCATCT
CAGCCCACGGCTGCAAGGTGGACAACCTCCTCCCTGACTGGCGAATCCGAGCCCCAGACTCGCTCTCCCGACTGCA
CTCACGACAACCCCTTGGAGACTCGGAACATCACCTTCTTTTCCACCAACTGTGTGGAAGGCACGGCTCGGGGCG
TGGTGGTGGCCACGGGCGACCGCACTGTCTATGGGCCGTATCGCCACCCTGGCATCAGGGCTGGAGGTGGGCAAGA
CGCCCATCGCCATCGAGATTGAGCACTTCATCCAGCTCATCACGGCGTGGCTGTCTTCTGGGTGTCTCCTTCT
TCATCCTCTCCCTCATTCTCGGATACACCTGGCTTGAGGCTGTCTCTCCTCATCGGCATCATCGTGGCCAATG
TCCCAGAGGGTCTGCTGGCCACTGTCACTGTGTGTCTGACGCTGACCGCCAAGCGCATGGCCCCGAAGAAGTCC
TGGTGAAGAAGCTGGAGGCTGTAGAAACCTGGGCTCCACGTCCACCATCTGCTCAGATAAGACAGGGACCCCTCA
CTCAGAACCGCATGACAGTCGCCCACATGTGGTTTGACAACAGATCCACGAGGCTGACACCACTGAGGACCAGT
CAGGGACCTCATTGTACAAGAGTTCGCACACCTGGGTGGCCCTGTCTCACATCGCTGGGCTCTGCAATCGCGCTG
TCTTCAAGGGTGGTCAGGACAACATCCCTGTGCTCAAGAGGGATGTGGCTGGGGATGCGTCTGAGTCTGCCCTGC
TCAAGTGCATCGAGCTGTCTCTGGCTCCGTGAAGCTGATGCGTGAACGCAACAAGAAAGTGGCTGAGATTCCCT
TCAATTCACCAACAATAACAGCTCTCCATCCATGAGACCGAGGACCCCCAACGACAACCGATACCTGCTGGTGA
TGAAGGGTGCCCCGAGCGCATCCTGGACCGCTGCTCCACCATCCTGCTACAGGGCAAGGAGCAGCCTCTGGACG
AGGAAATGAAGGAGGCCTTCCAGAATGCCTACCTTGAGCTCGGTGGCCTGGGCGAGCGCGTGTGGTTTCTGCC
ATTATTACCTGCCCGAGGAGCAGTTCCCCAAGGGCTTTGCCTTCGACTGTGATGACGTGAACCTTACCACGGACA
ACCTCTGCTTTGTGGGCCTCATGTCCATGATCGACCCACCCCGGGCAGCCGTCCCTGACGCGGTGGGCAAGTGT
GCAGCGCAGGCATCAAGGTATCATGGTACCGGCGATCACCCCATCACGGCCAAGGCCATTGCCAAGGGTGTGG
GCATCATCTCTGAGGGCAACGAGACTGTGGAGGACATCGCCGCCCCGGCTCAACATTCCTGTCAGCCAGGTAAAC
CCCGGGATGCCAAGGCCTGCGTATCCACGGCACCGACCTCAAGGACTTACCTCCGAGCAAATCGACGAGATCC
TGCAGAAATCACACCGAGATCGTCTTCGCCCCGACATCCCCCAGCAGAAGCTCATCATTGTGGAGGGCTGTGAGA
GACAGGGTGCAATTGTGGCTGTGACCGGGGATGGTGTGAACGACTCCCCCGCTCTGAAGAAGGCCGACATTGGGG
TGGCCATGGGCATCGCTGGCTCTGACGTCTCCAAGCAGGCGAGCTGACATGATCCTGCTGGACGACAACCTTGCT
CCATCGTACAGGGGTGGAGGAGGGCCGCTGATCTTCGACAACCTAAAGAAGTCCATTGCCTACACCTGACCA
GCAATATCCCGGAGATCACGCCCTTCTGCTGTTCATCATGGCCAACATCCCCTGCCCCCTGGGCACCATCACCA
TCCTCTGCATCGATCTGGGCACTGACATGGTCCCTGCCATCTCACTGGCGTACGAGGCTGCCGAAAGCGACATCA
TGAAGAGACAGCCCAGGAACCCGCGGACGGACAAATTGGTCAATGAGAGACTCATCAGCATGGCCTACGGGCAGA
TTGGAATGATCCAGGCTCTCGGTGGCTTCTTCTTACTTTGTGATCCTGGCAGAAAATGGCTTCTTGCCCCGCA
ACCTGGTGGGCATCCGGCTGAACCTGGGATGACCGCACCGTCAATGACCTGGAAGACAGTTACGGGCAGCAGTGG
CATAACGAGCAGAGGAAGGTGGTGGAGTTCACCTGCCACACGGCCTTCTTTGTGAGCATCGTTGTCTGCTCAGTGGG
CCGATCTGATCATCTGCAAGACCCGAGGAACCTGGTCTTCCAGCAGGGCATGAAGAACAAGATCCTGATCTTCG
GGCTGTTTGAGGAGACGGCCCTGGCTGCCTTCTGTCTTACTGCCCCGGCATGGACGTGGCCCTGCGCATGTACC
CTCTCAAGCCCAGCTGGTGGTCTGTGCCTTCCCTACAGTTTCTCTCATCTTCGTCTACGACGAAAATCCGCAAAC
TCATCCTGCGCAGGAACCCAGGGGTTGGGTGGAGAAGGAAACCTACTACTGACCTCAGCCCCACCACATCGCCC
ATCTCTTCCCCGTCCCCCAGGCCAGGACCGCCCCCTGTGAGTCCCCCAATTTTGTATTCTGGGGGGAGGAGCCC
TCTCTTCTGTGGCCCCACCTTGGCCCCCACCCTCCACTATCTCCTGCCCCCCCCACTCTGGCTGGCTTCTCT
CCCCTGCCCCAAACCTCTCTCCTCTCTCTTTTCTGTGTGAGTTTCTCTCCTCTCCTCACCCTCTATCCATTCC
TCCCGCCCCAGCCACCTCCCTGGGCTCTTTTTTACTCCCTTCAGCCCCCGGCTGATGCCATCTCTGGTTCTGG
ACAATTATCAAATATATCAGTGGGGAGAGAG

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FIGURE 5473

MGDKKDDKDSPPKKNKGKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCVQGLTHSKAQEILARDGPNALTTPPT
TPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAGTEDDPSGDNLVYLGIVLAAVVIITGCFSYQEAKSSKIMES
FKNMVPQQALVIREGEKMQVNAEEVVVDLVEIKGGDRVPADLRISAHGCKVDNSSLTGESEPTQTRSPDCTHDN
PLETRNITFFSTNCVEGTARGVVVATGDRTVMGRIATLASGLEVGKTPIAIEIEHFIQLITGVAVFLGVSFILS
LILGYTWLEAVIFLIGIIVANVPEGLLATVTVCLTTLAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNR
MTVAHMFWDNQIHEADTTEDQSGTSFDKSSHTWVALSHIAGLCNRAVFKGGQDNIPVLKRDVAGDASESALLKCI
ELSSGSVKLMRERNKKVAEIPFNSTNKYQLSIHETEDPNDNRYLLVMKGAPERILDRCSTILLQGKEQPLDEEMK
EAFQONAYLELGGGLGERVLGFCHYYLPEEQFPKGFAFDCDDVNFTTIDNLCFVGLMSMIDPPRAAVPDAVGKCRSAG
IKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVSQVNPRDAKACVIHGTDLKDFTSEQIDEILQNH
TEIVFARTSPQQKLIIVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVT
GVEEGRILIFDNLKKSIAAYTLTSNIPETPFLFIMANIPPLPLGTITILCIDLGTMVPAISLAYEAAESDIMKRO
PRNPRTDKLVNERLISMAYGQIGMIQALGGFFSYFVILAENGFLPGNLVGIRLNWDDRTVNDLEDSEYQQQWTYEQ
RKVVEFTCHTAFFVSIVVQWADLIICKTRNSVFQQGMKNKILIFGLFEETALAAFLSYCPGMDVALRMYPLKP
SWWFCAFPYSFLIFVYDEIRKLILRRNPGGWVEKETYY

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FIGURE 5474

CCCGAGTCTCAGGAGCCTGCCTTACAGCAGGAGGTGCAGGCCTCGTCACCTGCAGAGGTGCCTGTGTCTCAGCCT
GACCCCTTGCCAGCTTCTGACCACAGTTACGAGCTGCGCAATGGTGAAGCCATTGGGCGGGATCGCCGGGGGCGC
AGGGCCCGGAGGAACAACAGTGGAGAAGCAGGCGGGGCAGCCACACAGGAGCTCTTCTGCTCAGCCTGTGACCAG
CTCTTTCTCTCACCACACAGCTACAGCAGCACCTGCGGAGTCACCGGGAGGGCGTCTTTAAGTGCCCCCTGTGC
AGTCGTGTCTTCCCTAGCCCTTCCAGTCTGGACCAGCACCTTGGAGACCATAGCAGCGAGTCACACTTCCTGTGT
GTAGACTGTGGCCTGGCCTTCGGCACAGAGGCCCTCCTCCTGGCCCCACCGGCGAGCCCCACACCCCGAATCCTCTG
CATTCAATGTCCATGTGGGAAGACCTTTGTCAACCTTACCAAGTTCCCTTTATCACCGGCGTACTCATGGGGTAGGG
GGTGTCCCTCTGCCCACAACACCAGTCCCACCAGAGGAACCTGTCAATTGGTTTCCCTGAGCCAGCCCCAGCAGAG
ACTGGAGAGCCAGAGGCCCTTGAGCCCCCTGTGTCTGAGGAGACCTCAGCAGGGCCCCGCTGCCCCAGGCACCTAC
CGCTGCCTCCTGTGCAGCCGTGAATTTGGAAAGGCCTTGCAGCTGACCCGGCACCAACGTTTTGTGCATCGGCTG
GAGCGGCGCCATAAATGCAGCATTGTGTGGCAAGATGTTCAAGAAGAAGTCTCACGTGCGTAACCACCTGCGCACA
CACACAGGGGAGCGGCCCTTCCCTGCCCCTGACTGCTCCAAGCCCTTCAACTCACCTGCCAACCTGGCCCGCCAC
CGGCTCACACACAGGAGAGCGGCCCTACCGGTGTGGGGACTGTGGCAAGGCTTTCACGCAAAGCTCCACACTG
AGGCAGCACCGCTTGGTGCATGCCCAGCACTTCCCTACCGCTGCCAGGAATGTGGGGTGCCTTTTACCCTCCT
TACCGCTGCTCATGCACCGCTACCATCACACAGGTGAATACCCCTACAAGTGTGCGAGTGCCCCCGCTCCTTC
TTGCTGCGTTCGGCTGCTGGAGGTGCACCAGCTCGTGGTCCATGCCGGGCGCCAGCCCCACCGCTGCCCATCCTGT
GGGGCTGCCCTTCCCTCCTCACTGCGGCTCCGGGAGCACCGCTGTGCAGCCGCTGCTGCCAGGCCCCACGGCGC
TTTGAGTGTGGCACCTGTGGCAAGAAAGTGGGCTCAGCTGCTCGACTGCAGGCACACGAGGCGGCCCATGCAGCT
GCTGGGCCTTGAGAGGTCCCTGGCTAAGGAGCCCCCTGCCCTCGAGCCCCACGGGCCACTCGTGCACCAGTTGCC
TCTCCAGCAGCCCTTGGAAGCACTGCTACAGCATCCCTGCGGCCCTGCCCGCCGCGGGGTCTAGAGTGCAGC
GAGTGCAAGAAGCTGTTTACGACAGAGACGTCAGTGCAGGTGCACCGGCGCATCCACACAGGTGAGCGGCCATAC
CCATGTCCAGACTGTGGCAAAGCGTTCGGTCAGAGTACCCACCTGAAAGACCACCGGCGCCTGCACACAGGTGAG
CGGCCCTTTGCCTGTGAAGTGTGTGGCAAGGCCTTTGCCATCTCCATGCGCCTGGCAGAACATCGCCGCATCCAC
ACAGGCGAACGACCCCTACTCCTGCCCTGACTGTGGCAAGAGCTACCGCTCCTTCTCCAACCTCTGGAAGCACCGC
AAGACCCATCAGCAGCAGCATCAGGCAGCTGTGCGGCAGCAGCTGGCAGAGGCGGAGGCTGCCGTGCGCCTGGCC
GTCATGGAGACTGCTGTGGAGGCGCTACCCCTGGTGGAAAGCCATTGAGATCTACCCTCTGGCCGAGGCTGAGGGG
GTCCAGATCAGTGGCTGACTCTGCCCGACTTCCTCTTTGGCACCTCCATTCCCTGTGCTGAAGGCCCTCCAGCA
TCCCTTAAGCATCTGTACATACTGTGTCCCTTCCTCTTCCATCCCCACCACCTTGTAAGTTCTAAATTGGATT
TATTCTCTCGTGAGGGGGGTGCTCTGGGGTCCTTGACACACATAAAGGTGCCCCCCCCACCTTCCACCTCTTAGCA
CTGGTGACCCCCAAAAATGAAACCATCAATAAAGACTGGGTTGCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 5475

MFKKKSHVRNHLRTHHTGERPFPCPDCSKPFNSPANLARHRLTHTGERPYRCGDCGKAFTQSSTLRQHRLVHAQHF
PYRCQECGVRFHRPYRLLMHRYHHTGEYPYKCRECPRSFLLRRLLEVHQLVVHAGRQPHRCPCSGAAFPSSLRLR
EHRCAAAAQAPRRFECGTCGKKVGSAAARLQAHEAAHAAAAGPGEVLAKEPPAPRAPRATRAPVASPAALGSTATA
SPAAPARRRGLECECKKLFSTETSLQVHRRHTGERPYPCPDCGKAFRQSTHLKDHRRHTGERPFACEVCGKA
FAISMRLAEHRRHTGERPYSCPDCGKSYSRFSNLWKHRKTHQQQHQAQAVRQQLAEAEAAVGLAVMETAVEALPL
VEAIEIYPLAEAEVQISG

[illegible]

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FIGURE 5477

MKTPADTGFAFPDWAYKPESSPGSRQIQLWHFILELLRKEEYQGVIWQGDYGEFVIKDPDEVARLWGVRKCKPQ
MNYDKLSRALRYYYNKRILHKTGKRFTYKFNFNKLVLVNYPFIDVGLAGGAVPQSAPPVPSGGSHFRFPPSTPS
EVLSP TEDPRSP PACSSSSSSSLFSAVVARRLG RGSVSDCSDGTSELEPLGEDPRARPPGPPDLGAFRGPPLARL
PHDPGVFRVYPRPRGGPEPLSPFPVSPLAGPGSLLPPLSPALPMTPTHLAYTPSPTLSPMYPSSGGGGPSGSGGG
SHFSFSPEDMKRYLQAHTQSVYNYHLSPRAFLHYPGLVVPQPQRPD KCPLPPMAPETPPVPSSASSSSSSSSSPF
KFKLQRPPLGRRQRAAGEKAVAAADKSGGSAGGLAEGAGALAPPPPPQIKVEPISEGESEEEVETDISDEDEED
GEVFKTPRAPPAPPKPEPGEAPGASQCMPLKLRFKRRWSEDCRLEGGGGPAGGFEDGEDKKVRGEGPGEAGGPL
TPRRVSSDLQHATAQLSLEHRDS

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FIGURE 5478

AGCCGTGCTCAGAAAGTTTCTGGATCCCAGGCTCATCTCCACAGAGGAGAACACGCAGGCAGCAGAGACCATGGG
GCCCATCTCAGCCCCCTTCCTGCAGATGGCGCATCCCCTGGCAGGGGCTCCTGCTCACAGCCTCACTTTTACCTT
CTGGAACCCGCCCACCACTGCTCAGCTCACTATTGAAGCTGTGCCATCCAATGCTGCAGAGGGGAAGGAGGTTCT
TCTACTTGTCCACAATCTGCCCCAGGACCCTCGTGGCTACAACCTGGTACAAAGGGGAAACAGTGGATGCCAACCG
TCGAATTATAGGATATGTAATATCAAATCAACAGATTACCCCAGGGCCTGCATACAGCAATCGAGAGACAATATA
CCCCAATGCATCCCTGCTGATGCGGAACGTACCAGAAATGACACAGGATCCTACACCCTACAAGTCATAAAGCT
AAATCTTATGAGTGAAGAAGTAACTGGCCAGTTTCAGCGTACATCCGGAGACTCCCAAGCCCTCCATCTCCAGCAA
CAACTCCAACCCCGTGGAGGACAAGGATGCTGTGGCCTTCACCTGTGAACCTGAGACTCAGAACACAACCTACCT
GTGGTGGGTAAATGGTCAGAGTCTCCCGGTCAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCT
ACTCAGTGTCAACAAGGAATGACGTAGGACCCTATGAATGTGAAATACAGAACCCAGCGAGTGCAAACCTTCAGTGA
CCCAGTCACCCCTGAATGTCTCTATGGCCCAGATGCCCCCACCATTTCCTTTCAGACACCTATTACCATGCAGG
GGTAAATCTCAACCTCTCCTGCCATGCGGCCTCTAATCCACCCTCACAGTATTCTTGGTCTGTCAATGGCACATT
CCAGCAATACACACAAAAGCTCTTTATCCCCAACATCACTACAAAGAACAGCGGATCCTATGCCTGCCACACCAC
TAACTCAGCCACTGGCCGCAACAGGACCACAGTCAGGATGATCACAGTCTCTGATGCTTTAGTACAAGGAAGTTC
TCCTGGCCTCTCAGCTAGAGCCACTGTGAGCATCATGATTGGAGTACTGGCCAGGGTGGCTCTGATATAGTAGCT
CTGGTGTAGTTTCTGCATTTCAAGAAGACTGGCAGACAGTTGTTTTTATTCTTCCTCAAAGCATTGCAATCAGC
TACCATTCAAAATTGCTTCTTCTTCAAGATTTATGGAAAATACTCTGACGAGTACTCTTGAACACAAGTTCTCTGA
TAACTTTAAGATCACGCCACTGGACTGTCTATGAACTTGCAAACAGGCTGATACCTTTGTGAAGTTGCCACCAA
AACACAGAAGGAAAAAACATGAATTTTATTGAACTAAATAATAATGAGGATAATGTTTTTAAGATTTTTTTTTT
TTTTTGAGATGGAATCTCGCTCTGTGCCCCAGGCTGGAGTGCAGTGGCACGATCTCAACTCACTGCAAGCTCCGC
CTCCTGGGTTACACCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCCTGCCACAACGCCCGG
CTAATTTTTTGTATTTTTTAGTAGAGACGGGGTTTCACTGTGGTCTCAATCTCCTGACTTCATGGTCCGCCTGCCT
CAGCCTCCCAAAGTTCTGGGATTACAGGTGTGAGCCACCGCGCCAGCCCGTTTTTAAAGATTTTTTATTGAAAA
ATTGCCAATTCTTTAAGTGTTTTCTTTTTTCAAGATTTATGAATTTCTTTATCTTTTAAAGCTATCTATACCTTACTG
CAATTTGGTAAAGCAGACTTTTGTGAACAAAAATTATAACATTTACTTTTGTCTCCCTACCTGACTGCCACAGAAC
TGGGCAACTATTTCATGAGTATTCATATGTTTATGGTAATTCAGTTATTTGCACAAGTTTCAGTGAGAATCTGCTGT
CTTTATAATGGGATATAGTTTAAAACATTGGTTATATTACCAAGGCTTTGATTGGGATGTTATATTGAGAAAAT
ACAGAGAATGATAGATTAACGGAGTGTCTAATCTATCGTGTCAACCCCAAATTTTTACGTATGAGATCCTTTAGT
CCACCCAATGGCTGACAGTAACAGCATCTTTAACACAACCTCTTTGTTCAAATGTACTATGGTCTCTTTTAGAGTC
AGACTCCTAGACTCACTTGTTCTCACTGTCTGTTTTAATTTAACCAGGCATGCAATGCTAGATAATAAAATTGC
TCCCTATTGGCTGATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5479

MGPI SAPSCRWRIPWQGLLLTASLFTFWNPPTTAQLTIEAVPSNAAEGKEVLLLVHNLPQDPRGYNWYKGETVDA
NRRIGYVISNQQITPGPAYSNRETIYPNASLLMRNVTRNDTGSYTLQVIKLNLMSEEV TGQFSVHPETPKPSIS
SNN SNPVEDKDAVAFTCEPETQNTTYLWWVNGQSLPVSPRLQLSNGNRTL TLLSVTRNDVGPECEIQNPASANF
SDPVTLNVLYGPDAPTISP SDTYHAGVNLNLSCHAASNPPSQYSWSVNGTFQQYTQKLFIPNITTKNSGSYACH
TTNSATGRNRITVRMITVSDALVQGSSPGLSARATVSIMIGVLARVALI

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FIGURE 5480

ATGATGGCGTATATGAACCCGGGGCCCCACTATTCTGTCAACGCCTTGGCCCTAAGTGGCCCCAGTGTGGATCTG
ATGCACCAGGCTGTGCCCTACCCAAGCGCCCCCAGGAAGCAGCGGCGGGAGCGCACCACCTTCACCCGGAGCCAA
CTGGAGGAGCTGGAGGCACTGTTTGCCAAGACCCAGTACCCAGACGTCTATGCCCCGTAGGAGGTGGCTCTGAAG
ATCAATCTGCCTGAGTCCAGGGTTCAGGTTTGGTTCAAGAACCGGAGGGCTAAATGCAGGCAGCAGCGACAGCAG
CAGAAACAGCAGCAGCAGCCCCAGGGGGCCAGGCCAAGGCCCGGCCTGCCAAGAGGAAGGCGGGCACGTCCCCA
AGACCTCCACAGATGTGTGTCCAGACCCTCTGGGCATCTCAGATTCCCTACAGTCCCCCTCTGCCCCGGCCCCCTCA
GGCTCCCCAACCACGGCAGTGGCCACTGTGTCCATCTGGAGCCCAGCCTCAGAGTCCCCCTTTGCCTGAGGCGCAG
CGGGCTGGGCTGGTGGCCTCAGGGCCGTCTCTGACCTCCGCCCCCTATGCCATGACCTACGCCCCGGCCTCCGCT
TTCTGCTCTTCCCCCTCCGCCTATGGGTCTCCGAGCTCCTATTTTCAGCGGCCTAGACCCCTACCTTTCTCCCATG
GTGCCCCAGCTAGGGGGCCCGGCTCTTAGCCCCCTCTCTGGCCCCCTCCGTGGGACCTTCCCTGGCCCAGTCCCCC
ACCTCCCTATCAGGCCAGAGCTATGGCGCCTACAGCCCCGTGGATAGCTTGGAATTCAAGGACCCACGGGCACC
TGGAAATTCACCTACAATCCCATGGACCCTCTGGACTACAAGGATCAGAGTGCCTGGAAGTTTCAGATCTTGTAG

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FIGURE 5481

MMAYMNP GPHYSVNALALSGPSVDLMHQAVPYPSAPRKQRRERTTFTRSQLEEELEALFAKTQYPDVIYAREEVALK
INLPESRVQVWFKNRRRAKCRQQRQQQKQQQQPPGGQAKARPAKRKAGTSPRPSTDVCPDPLGISDSYSPPLPGPS
GSPTTAVATVSIWSPASESPLPEAQ RAGLVASGPSLTSAFYAMTYAPASAFCS SPSAYGSPSSYFSGLDPYLSPM
VPQLGGPALSP LSGPSVGPSLAQSPTSLSGQSYGAYSPVDSLEFKDPTGTWKFTYNPMDPLDYKDQSAWKFIIL

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FIGURE 5482

TGACAAGATGGCGGCAGGAGGCAGTGGCGTTGGTGGGAAGCGCAGCTCGAAAAGCGATGCCGATTCTGGTTTCCT
GGGGCTGCGGCCCACCTTCGGTGGACCCAGCGCTGAGGCGGCGGCGGCGAGGCCCAAGAAATAAGAAGCGGGGCTG
GCGGCGGCTTGCTCAGGAGCCGCTGGGGCTGGAGGTTGACCAGTTTCTTGGAAAGACGTGCGGCTACAGGAGCGCAC
GAGCGGTGGCTTGTTGTCAGAGGCCCAATGAAAACTCTTCTTCGTGGACACTGGCTCCAAGGAAAAAGGGCT
GACAAAGAAGAGAACCAGTCCAGAAGAAGTCACTGCTTCTCAAGAAACCCCTTCGGGTTGACCTCATCTCTCGA
GAACACATCCAAAGTCCCTGCCCCAAAGACGTCTCGCCACCAGGTCCCCAACGCCAAGAAGCTCAGGCGGAA
GGAGCAGCTATGGGAGAAGCTGGCCAAGCAGGGCGAGCTGCCCCGGGAGGTGCGCAGGGCCCAGGCCCCGCTCCT
CAACCCTTCTGCAACAAGGGCCAAGCCCCGGGCCCCAGGACACCGTAGAGCGGCCCTTCTACGACCTCTGGGCCTC
AGACAACCCCTGGACAGGCCGTTGGTTGGCCAGGATGAGTTTTTCTTGGAGCAGACCAAGAAGAAAGGAGTGAA
GCGGCCAGCACGCCTGCACACCAAGCCGTCCCAGGCACCGCCGTGGAGGTGGCGCTGCCGGAGCTTCCTACAA
TCCATCCTTTGAAGACCACCAGACCCTGCTCTCAGCGGCCACGAGGTGGAGTTGCAGCGGCAGAAAGGAGGCGGA
GAAGCTGGAGCGGCAGCTGGCCCTGCCCGCCACGGAGCAGGCCGCCACCCAGGAGTCCACATTCAGGAGCTGTG
CGAGGGGCTGCTGGAGGAGTCGGATGGTGAAGGGGAGCCAGGCCAGGGCGAGGGGCCGGAGGCTGGGGATGCCGA
GGTCTGTCCCACGCCCGCCCGCTGGCCACCACAGAGAAGAAGACGGAGCAGCAGCGGCGGCGGGAGAAGGCTGT
GCACAGGCTGCGGGTACAGCAGGCCGCGTTGCGGGCCGCCCGGCTCCGGCACCAGGAGCTGTTCCGGCTGCGCGG
GATCAAGGCCCAGGTGGCCCTGAGGCTGGCGGAGCTGGCGCGGCGGCAGAGGCGGCGGCAGGCGCGGCGGGAGGC
TGAGGCTGACAAGCCCCGAAGGCTGGGGCGGCTCAAGTACCAGGCACCTGACATCGACGTGCAGCTGAGCTCGGA
GCTGACAGACTCGCTCAGGACCCTGAAGCCCGAGGGCAACATCCTTCGAGACCGGTTCAAGAGCTTCAGAGGAG
GAATATGATCGAGCCTCGAGAGAGAGCCAAGTTCAAACGCAAGTACAAGGTGAAGCTGGTGGAGAAGCGGGCGTT
CCGTGAGATCCAGTTGTAGCTGCCATCAGATGCCGGAGACTCGCCCTTCAATAAAAAATCTCTTCTAGCTG

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FIGURE 5483

CGTCTCTCCGTGAACCCCGTGAGCGGTGTGCAGCCACCATGTTTCAGCTGGCTGAAGCGGGGCGGGGCACGGGGCC
AGCAGCCCGAGGCCATCCGCACGGTGACCTCGGCCCTCAAGGAGCTGTACCGCACGAAGCTGCTGCCGCTGGAGG
AGCACTACCGCTTTGGGGCCTTCCACTCGCCGGCCCTGGAGGACGCAGACTTCGACGGCAAGCCCATGGTGCTGG
TGGCCGGCCAGTACAGCACGGGCAAGACCAGCTTCATCCAGTACCTGCTGGAGCAGGAGGTGCCGGGCTCCCGCG
TGGGGCCTGAGCCACCCGACTGCTTTGTGGCCGTCATGCACGGGGACACTGAGGGCACCCTGCCCGGCAACG
CCCTCGTTCGTGGACCCGGACAAGCCCTTCCGCAAACCTCAACCCTTTTCGAAAACACCTTCCTCAACAGGTTTCATGT
GTGCCCAGCTCCCTAATCAGGTCCCTGGAGAGCATCAGCATCATCGACACCCCGGGTATCCTGTTCGGGTGCCAAGC
AGAGAGTGAGCCGCGGCTACGACTTCCCGGCCCGTGTGCGCTGGTTTCGCGGAGCGCGTGGACCTCATCATCCTGC
TCTTTGATGCGCACAAAGCTGGAGATCTCGGACGAGTTCTCAGAGGCCATCGGCGCGTTGCGGGGCCATGAGGACA
AGATCCGCGTGGTGCTCAACAAGGCCGACATGGTGAGACGCAGCAGCTGATGCGCGTCTACGGCGCGCTCATGT
GGGCGCTGGGCAAGGTGGTGGGCACGCCCCGAGGTGCTGCGCGTCTACATCGGCTCCTTCTGGTCCCAGCCCCCTCC
TCGTGCCCCGACAACCGGCGCCTCTTCGAGCTGGAGGAGCAGGACCTCTTCGCGACATCCAGGGCCTGCCCCGGC
ACGCAGCCTTTCGCAAGCTCAACGACCTGGTGAAGAGGGCCCCGGCTGGTGCGAGTTCACGCTTACATCATCAGCT
ACCTGAAGAAGGAGATGCCCTCTGTGTTTGGGAAGGAGAACAAGAAGAAGCAGCTGATCCTCAAACCTGCCCGTCA
TCTTTGCGAAGATTTCAGCTGGAACATCACATCTCCCCTGGGGACTTTCCTGATTGCCAGAAAATGCAGGAGCTGC
TGATGGCGCACGACTTCACCAAGTTTCACTCGCTGAAGCCGAAGCTGCTAGAGGCACTGGACGAGATGCTGACGC
ACGACATCGCCAAGCTCATGCCCCCTGCTGCGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGAGGGGGGCG
CTTTTGAGGGCACCACATGGGCCCGTTTGTGGAGCGGGGACCTGACGAGGCCATGGAGGACGGCGAGGAGGGCT
CGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAAATACGACGAGATCTTCTACAACCTGGCGCCTG
CCGACGGCAAGCTGAGCGGCTCCAAGGCCAAGACCTGGATGGTGGGGACCAAGCTCCCCAACTCAGTGCTGGGGC
GCATCTGGAAGCTCAGCGATGTGGACCGCGACGGCATGCTGGATGATGAGGAGTTCGCGCTGGCCAGCCACCTCA
TCGAGGCCAAGCTGGAAGGCCACGGGCTGCCCGCCAACCTGCCCCGTGCGCTGGTGCCACCCTCCAAGCGACGCC
ACAAGGGCTCCGCCGAGTGAGCCGGCCCCCTCCCATGGCCCTGCTGTGGCTCCCCAGCTCCAGTCGGCTGCACG
CACACCCCTGCTCCGGCTCACACACGCCCTGCCTGCCCTCCCTGCCCAGCTGTAAGGACCGGGGGTCTCCCTCCT
CACTACCGCCAGACACCCCGGTGGAAGCATTTAGAGGGGACCACGGGAGGGACAAGGCTTCTCTGTCCGCCCTTC
ACACCTCCAGCCTCACGTTCACTTAGGCACATCACACACACACTGGCACACGCAGGCATCCATCCATCCGTCATT
CATTCAAATATTTATTGAGCACCTACTATGTGCCCAGCCCTGTTCTAGGCACTGGGCATTACCATAGAGAACAAA
ATAGACAAATACATCTGCCCTCATGGAAGGTGACGTTCCAGGAGAGGGCACCTACACAGTCACGCAAACACACA
CTAATTCTGGCAGGGCCCCCAGCCCTCCCCTGGCTGAGCAGCCCTGTGGCTGAAATGACTAGCAGATAAACAG

5947/6881
FIGURE 5484A

CTCGTAGCTCCACTCTGCAGCCTCAAACCTCCTGGGCTCCAGTGATCCTCTCACCTCAGCCTCCCAAGTAGCTAAG
ACCACAGGCACATGCTGCCACCCCTGACTAATTTTTCTTTTTTAAAATTTTTTCTCACTGCGTTGCCCAGGCTG
GTCTCAAACCTCTTTGGCTCAAGCCATCCATCCTCCTACCTCAGCCTCCCAAAGTGCTGAGATTACAAGCGTGAAC
CACCATGCCAGGAGGGAATGTTCTTTCTTGAACGTGGCTGCCCTGTACCTCAGCATTCTTTGCGGCAGCTGTGG
CCTAAGCGTAGCCCCCTTGCTAACCTCAGCTCTTTCTTTCCACCTTTCCCGGCCTGCAGCTCCATGTGCAAGAAG
CTTCCGGCAACCACCTGAACCCAGAGCCCAACCAGCCGGCCCCCAGTGTTGGACCTAGACTTCTTGGAAGATGACA
TCCTGGGCTCTCCTGCGACAGGGGGCGGGCGGGGGGCGAGTGGGGGGCGCTGACCAGCCCTGTGACATCCTCCAGC
AGAGCCTCCAAGAGGCCAACATCACGGAGCAGACGCTGGAGGCCGAGGCTGAGCTGGACCTGGGTCCCTTCCAGC
TGCCACCCCTGCAGCCTGCGGATGGCGGGGCGAGGCCCGACGGGCGCTGGAGGGGCGAGCGGCCGTGGCTGCGGGG
CCCAAGCCCTCTTCCAGGCAGCACCGACCTGCTGGGGCTGCAGGGCCCGCTACCGTGCTGACCCACCAGGCC
TGGTGCCGCCCCAGGACGTGGTCAACAAGGCCCTGAGTGTGCAGCCCTTCTGTCAGCCTGTGGGCTGGGCAATG
TGACACTGCAGCCCATCCCGGGCTCCAAGGCCTGCCCAATGGCAGCCCTGGGGGTGCCACGGCGGCCACACTGG
GCCTGGCGCCCATCCAGGTGGTGGGCCAGCCCGTCATGGCGCTCAACACGCCCACCTCCCAGCTCCTGGCCAAGC
AGGTGCCCGTGCAGCGGCTACCTGGCTCGGGCGCTGGCCCCCTCGGAGCCCGTGACGCTGGCGTGGGCCGGTGTCT
CGCCACAGGGGGCTGGCTGGTCATCAGAAGAACCTCTCGGCCGCTGTGGCCACCACGCTCAATGGGAACCTGTG
TGTTGCGAGGCGCGGGGGCGCCTCGGCTCCCACGGGACGCCCTCGGGACAGCCGCTGGCGGTGGCCCCAGGCC
TCGGCTCGTCGCCACTGGTCCCGGCGCCCAACGTGATCCTGCATCGCACACCCACGCCCATCCAGCCCAAGCCCG
CGGGGGTGTGTCGCCCCCAAGCTCTACCAGCTGACGCCCAAGCCGTTTGCGCCGCGGGGCGCCACGCTCACCATCC
AGGGCGAGCCGGGGGCGCTCCCGCAGCAGCCCAAGGCCCGCAGAACCTGACGTTTATGGCGCGGGGAAGGCGG
GCCAGAACGTGGTGTGTGCGGGCTTCCCGCGCCTGCGCTGCAAGCGAACGTCTTCAAGCAGCCACCGGCCACCA
CCACCGGAGCGGGCCCCGCGCAGCCCCCGGGGCCCTGAGCAAACCCATGAGCGTCCACCTCCTGAACCAAGGCA
GCAGCATCGTCATCCCCGCCCAGCACATGCTGCCGGGCCAGAACCAGTTTCTACTGCTGGCGCCCCGCGGTCC
AGTCCCCGAGCAGCTCTCAGCCCTGCCGGCCAACGTGGGCGGGCAGATCCTGGCGGCCGCTGCCCCCACACAG
GTGGACAGCTCATCGCAACCCCATCCTCACAACCAGAACCTGGCGGGGCCACTGAGCCTGGGCCCCGTGTTGG
CCCCCACTCCGGGGGCCACAGCGCGCACATCCTCTCCGCCGCTCCCATCCAGGTGGGCCAGCTGCGCTCTTCC
AGATGCCCGTGTGCTGGCGGGCGGCAGCCTGCCACGCAGAGCCAGCCAGCGCCCCGCGGGCGGCCGCCACCA
CTGTCTCCAGGGGGTACCCCTGCCCCCAGCGCCGTGGCCATGCTCAACACCCCCGACGGCCCTGGTGACGCCGG
CCACCCCTGCCGCTGCCACCGGGGAGGCCGCGCCTGTCTCACGGTGCAGCCTGCCCCCAGGCGCCCCCGCGG
TCAGCACACCCCTGCCCCCTGGGCCTCCAGCAGCCGCGAGGCGCAGCAGCCCCCGCAGGCCCCCACCCACAGGCCG
CCGCCCCGCTCAGGCCACCACCCCCAGCCAGCCCTGGCCTGGCGTCTAGCCCCGAGAAGATCGTCTTGGGGC
AGCCGCCCTCTGCCACCCCCACGGCCATCCTCACTCAGGACTCCCTGCAGATGTTCTTCTGCCCCAGGAGAGGAGCC
AGCAGCCCCCTCTCCGCAGAGGGCCCCACCTCTCCGTGCTGCTCGGTTCATAGTCAGCGCCCCGCTCCCGCCC
AAGACCCAGCCCCAGCCACCCCGTGCCTAAAGGAGCTGGCCTCGGCCCTCAGGCCCCGACAGCCAGGCTTCCC
CGGCTCCGGCCCCCAGATCCCGGCAGCGGCTCCGCTGAAGGGGCCAGGCCCTCTTCGTCCCCGTCACTACCTC
ACCAGGCCCTCTGGGGGACAGCCCCACCTGCCCTCCCCACACCCACCCGGCCCCCTTCCCGCCACCCTCCC
GGCCACAGAGTGTGTCCCGCCCTCCCTCAGAGCCACCCTTGACCCCTTGCCCCCACCAGGCCCCCCCAACTC
TGCTGGCATCTTTGTATCCAAAACAGCTAGGCGTTCCCCCGCTGCCAGCAACCCGGCCCCCTACTGCCCCAG
GCCGCGCAGCCGCTCTCCGCCCCAGTCCAGCCGCTGAGGGACCGCTGCCCCCAGCCCCCACCTCCCTC
CATCTCCACCTCCTCTGCTGTGGCTCCTCCTCTGAGACGCTCCTCCAGGTTGCCAGCCCTACGCCATCCGACT
TCCAGCTCCAGTTCCACCCAGCCAGGGGCCCAAGTCCCCCACTCCCCCTCCAACCTCCACCTGGTCCCTG
AGCCGGCAGCACCCCCCACCCTCCTCGGACCTTCCAGATGGTGACCACCCCTTCCAGCGCTGCCCCAGC
CGAAGGCTCTTCTCAGAGATTTACCCAGGTGCCGTCCGGAATCATCTCCAGAACAAAGGCTGGGGGGGCCCCCTG
CCGCCCCGAGACCTCCACAGCCTGGGGCCCCCTACCAGCCCCGCTGCGTCTGTGCTGGTCACTGGGCAGGCC
CATCTGGGACCCCACTGCCCCAGCCAGCCCCCGCCCCGGCACCCATGGCCGCCACAGGCCTCCCTCCTCTGC
TTCCAGCCGAGAACAAAGGCTTTTGCCAGCAACCTCCCGACCTGAATGTGGCCAAGGCCGCTTCTCCGGGCCAG
GGAAGCCCTCCGGGCTGCAGTATGAGAGCAAACCTGAGTGGCCTGAAGAAGCCCCCAGCTTCAGCCCAGCAAGG
AAGCCTGTTCTTGGAGCATTTGCACAAACACAGGGCTCCGTCTGTCACCCGACTACAAGACGGCCTTCCCT
CCTTTGAGGACGCCCCTGCATCGCCTCCTGCCCTACCATGTCTACCAGGGCGCCCTCCCTCCCCAGTGACTACC

5948/6881
FIGURE 5484B

[illegible]

5949/6881
FIGURE 5485

GCGGCTGAGTCTTCCCAGGGTCAGGGTCAGGCGCTTTGCTGAGTCCCTTTGTGGCCGCCATGGACAATTCCGGGA
AGGAAGCGGAGGCGATGGCGCTGTTGGCCGAGGCGGAGCGCAAAGTGAAGAACTCGCAGTCCTTCTTCTCTGGCC
TCTTTGGAGGCTCATCCAAAATAGAGGAAGCATGCGAAATCTACGCCAGAGCAGCAAAACATGTTCAAAATGGCCA
AAAACCTGGAGTGCTGCTGGAAACGCGTTCTGCCAGGCTGCACAGCTGCACCTGCAGCTCCAGAGCAAGCACGACG
CAGCCACCTGCTTTGTGGACGCTGGCAACGCATTCAAGAAAGCCGACCCCCAAGAGGCCATTAACTGTTTGATGC
GAGCAATCGAGATCTACACAGACATGGGCCGATTACGATTGCGGCCAAGCACCACATCTCCATTGCTGAGATCT
ATGAGACAGAGTTGGTGGACATCGAGAAGGCCATTGCCCACTACGAGCAGTCTGCAGACTACTACAAAGGCGAGG
AGTCCAACAGCTCAGCCAACAAGTGTCTGCTGAAGGTGGCTGGTTACGCTGCGCTGCTGGAGCAGTATCAGAAGG
CCATTGACATCTACGAACAGGTGGGGACCAATGCCATGGACAGCCCCCTCCTCAAGTACAGCGCCAAAGACTACT
TCTTCAAGGCGGCCCTCTGCCACTTCTGCATCGACATGCTCAACGCCAAGCTGGCTGTCCAAAAGTATGAGGAGC
TGTTCCCAGCTTTCTCTGATTCCCAGGAATGCAAGTTGATGAAAAAATTGCTAGAGGCCACGAGGAGCAGAATG
TGGACAGCTACACCGAGTCGGTGAAGGAATACGACTCCATCTCCCGGCTGGACCACTGGCTCACCACCATGCTGC
TGCGCATCAAGAAGACCATCCAGGGCGATGAGGAGGACCTGCGCTAAGCCCCACCCAGCCCCCAGTCCCCGTCT
TCCTGTCCCATCTGCTCAGAGAGAGCCAAGCTCTAAAGCACATGTAGCCGCTGAGACCTGCTGTTTCTGCTGGGG
GCAGGCTCCTCTTCCCCCAGCCCCGGGAGCCTCCCCAGCTTCTGCGAGCCCCGACCTCTCAGGTTAGACCCTGG
GCCCTGGAGCTTAGGGGATTCTCCCCACCCAGCCCCACACCTGCTCCTTCCCTAATGCTTTGAGGTTTTCTTGG
TTGGAAGCTGCAGCTGGCCCAAGAAAGAAAATAAAAAACAACACTTTTGC

5950/6881
FIGURE 5486

TTGGCTTGAGCGGGACCGGAGCTGAGGCAGGAAGAGCCGGCGCCATGGTGGAGAAGGAGGAGGCTGGCGGCGGCA
TTAGCGAGGAGGAGGCGGCACAGTATGACCGGCAGATCCGCCTGTGGGGACTGGAGGCCAGAAACGGCTGCGGG
CCTCTCGGGTGCTTCTTGTCGGCTTGAAAGGACTTGGGGCTGAAATTGCCAAGAATCTCATCTTGCGCAGGAGTGA
AAGGACTGACCATGCTGGATCACGAACAGGTAACCTCCAGAAGATCCCGGAGCTCAGTTCTTGATTTCGTACTGGGT
CTGTTGGCCGAAATAGGGCTGAAGCCTCTTTGGAGCGAGCTCAGAATCTCAACCCCATGGTGGATGTGAAGGTGG
ACACTGAGGATATAGAGAAGAAACCAGAGTCATTTTTCACTCAATTCGATGCTGTGTGTCTGACTTGCTGCTCCA
GGGATGTCTAGTTAAAGTTGACCAGATCTGTCAAAAAATAGCATCAAGTTCTTTACAGGAGATGTTTTTGGCT
ACCATGGATACACATTTGCCAATCTAGGAGAGCATGAGTTTGTAGAGGAGAAAACTAAAGTTGCCAAAGTTAGCC
AAGGAGTAGAAGATGGGCCCCGACACCAAGAGAGCAAACTTGATTCTTCTGAGACAACGATGGTCAAAAAGAAGG
TGGTCTTCTGCCCTGTAAAGAAGCCCTGGAGGTGGACTGGAGCAGTGAGAAAGCAAAGGCTGCTCTGAAGCGCA
CGACCTCCGACTACTTTCTCCTTCAAGTGCTCTTAAAGTTCCGTACAGATAAAGGAAGAGATCCAGTTCTGATA
CATATGAGGAAGATTCTGAGTTGTTGCTCCAGATACGAAATGATGTGCTTGACTCACTGGGTATTAGTCCTGACC
TGCTTCTTGAGGACTTTGTGAGGTACTGCTTCTCCGAGATGGCCCCAGTGTGTGCGGTGGTTGGAGGGATTTTGG
CACAGGAAATTGTGAAGGCCCTGTCTCAGCGGGACCTCCTCACAACAACCTTCTTCTTCTCGATGGCATGAAGG
GGAATGGGATTGTGGAGTGCCCTTGGCCCCAAGTGAACCTCAAGATTTGGCAGCCCCAGAGATGCCAACTGCAGCAT
GCCCACCTGTATTCCCTGTCCCCCTTCCTTCATGAAGGCATCTCCAGGCAAGGAAAACCTGAAGTCATTGGCCCGAT
ACAAAACATTTCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGCTGCTCGACAAGGGG
CGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTGAGGCTGCCTGTCTATCCCGGGCCTGCCAGCTCCCCTGAGTGAT
GAGCACTTCCAAGCACCCCTCTGCCCTTTCTGTCTTATGCTGTCCCGGCTCGCCAGCCCTCTGGGGCATTG
TGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCTCTTGTACCTTCTTGGAATTATTCCCCA
CCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCAGGCCCATGAGGCACCAAGTGGAAAGCA
CAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGAAAACCATGACAGGCAAATGCATTTCTCTGGAGTTTGAGA
CCCTGACAAACAACAGGTGGCATCTGGTGTGCTGTTCTTGAGTTTTCGTTTAGGATTAGTTGAGTTCCAGCTGGG
TTTTGGGAGAAAGGAGATGCTACCAAGTCTTGATGTTAGGGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTG
TCTTTCAAGGCAGGTTCTTGGGGCTTCAGGGCTAGGAGGGAGGAGCCTGCCCTTTTAAACAGAACCCAGTCACAT
GCGGCTCAAGTCACTCAGAGGCTGTTGCATTTGAGGGCTATGTTGGTCCTTTGTTTACCTCCTAAACCACAGCTG
TTTGTGTTTACATATGTTGTGAATTTTCTTGGTTCTTTTTAAAGGAATGATAATAAAGTTACTTGCTTTAGGA
TTTGCTTGTTTTTCTTCCACTTCAGAAGCTTCTGAGAGGGAATGGGATGATCCTACCAGTTGCCTTTTCAGACCT
GAGGCTCTA

5951/6881
FIGURE 5487

GTCATTGGCCCGATACAAAACATTTTCCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGC
TGCTCGACAAGGGGCGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTTCAGGCTGCCTGTCATCCCGGGCCTGCCAG
CTCCCCTGAGTGATGAGCACTTCCAAGCACCCCTCTGCCCTTTCTCTGTCTTATGCTGTCCCGGCCTCGCCAGC
CCTCTGGGGCATTGTGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCCTCTTGTACCTTCTT
GGACTTATTCCCCACCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCCAGGCCCCATGAGG
CACCAGTGGAAGCACAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGCAGGTGGCATCTGGTGTGCTGTTCTTG
AGTTTTTCGTTTAGGATTAGTTGAGTTCAGCTGGGTTTTGGGAGAAAGGAGATGCTACCAAGTCTTGGATGTTAG
GGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTGTCTTTCAAGGCAGGTTCTTGGGGCTTCAGGGCTAGGAGGG
AGGAGCCTGCCCTTTTAACAGAACCCAGTCACATGCGGCTCAAGTCACTCAGAGGCTGTTGC

5952/6881
FIGURE 5488

TGCACCCTGAGCCGGAGCTGCCCAGTCGCCGCGGGACCGGGGCCGCTGGGGTCTGGACGGGGGTGCGCCATGATCC
GCTTTATCCTCATCCAGAACCGGGCAGGCAAGACGCGCCTGGCCAAGTGGTACATGCAGTTTGATGATGATGAGA
AACAGAAGCTGATCGAGGAGGTGCATGCCGTGGTCACCGTCCGAGACGCCAAACACACCAACTTTGTGGAGTTCC
GGAACTTTAAGATCATTTACCGCCGCTATGCTGGCCTCTACTTCTGCATCTGTGTGGATGTCAATGACAACAACC
TGGCTTACCTGGAGGCCATTACAACTTCGTGGAGGTCTTAAACGAATATTTCCACAATGTCTGTGAAGTGGACC
TGGTGTTCAACTTCTACAAGGTTTACACGGTCGTGGACGAGATGTTCTGGCTGGCGAAATCCGAGAGACCAGCC
AGACGAAGGTGCTGAAACAGCTGCTGATGCTACAGTCCCTGGAGTGAGGGCAGGCGAGCCCCACCCCGGCCCGG
CCCCTCCTGGACTCGCCTGCTCGCTTCCCCTTCCCAGGCCCGTGGCCAACCCAGCAGTCCTTCCCTCAGCTGCCT
AGGAGGAAGGGACCCAGCTGGGTCTGGGCCACAAGGGAGGAGACTGCACCCCACTGCCTCTGGGCCCTGGCTGTG
GGCAGAGGCCACCGTGTGTGTCCCGAGTAACCGTGCCGTTGTCTGTGATGCCATAAGCGTCTGTGCGTGGAGTC
CCCAATAAACCTGTGGTCCTGCCTGGC

5953/6881
FIGURE 5489

GGCAGCCCCGGGAGGCTTTCTCTGGCTGGTAACCGCTACTCCCGGACACCAGACCACCGCCTTCCGTACACAGGG
GCCCCGATCCCACCCTCCCGGACCTAAGAGCCTGGGTCCCCTGTTTCCGGAGGTCCGCTTCCCGGGCCCCAGATT
CTGGCATCCCAGCCCTCAGTGTCCAAGACCCAGGCAGCCCGGGTCCCCGCCTCCCGGATCCAGGCGTCCGGGATC
TGCGCCACCAGAACTAGCCTCCTGCAGACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCA
CGTCCCACCCAGAGAACTCTCGTATTCCCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACTCCCAGCTTT
CGGACATCTGGCACACGGGGCAGAGCAGAGAAGCCTCAGCGCCCAGCCTGGGGAATTTAAACACTCCAGCTTCCA
AGAGCCAAGGAACCTTCAGTGTGTGAACCTACAACCTCTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTT
ACTCAACTCAGTCCTAGGAACGTCGGGTCCTGGGAAGGAGCCCAAGCGCTCCAGCCAGCTTCCAGGCGCTAAGA
AACCCCGGTGCTTCCCATCATGGTGGCCGATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGGCGGAGCCACCGC
CAACGGGGGCTGGCGCTGGCCTCCATCGAGGACCAAGGCGCGGCAGCAGGCGGCTACTGCGGTTCCCGGGACCA
GGTGCGCCGCTGCCTTCGAGCCAACCTGCTTGTGCTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGG
ACTGGGGGTGTCTGGGGGCGGGGGTGCCTGGCGTGGCGTTGGGCGCGAGCGCTTGAGCGCTTTCGTCTTCCGGGCGA
GCTGCTGCTGCGTCTGCTGCGGATGATCATCTTGCGCTGGTGGTGTGCAGCTTGATCGGCGGCGCGCCAGCCT
GGACCCCGGCGCGCTCGGCCGTCTGGGCGCCTGGGCGCTGCTCTTTTCTGGTCAACACGCTGCTGGCGTGGC
GCTCGGAGTGGGCTTGGCGCTGGCTCTGCAGCCGGGCGCGCCTCCGCCGCCATCAACGCCTCCGTGGGAGCCGC
GGGAGTGCCGAAATGCCCCCAGCAAGGAGGTGCTCGATTGCTTCTGGATCTTGCGAGAAATATCTTCCCTTC
CAACCTGGTGTGACGAGCCTTTCGCTCATACTCTACCACCTATGAAGAGAGGAATATCACCGGAACCAGGGTGAA
GGTGGCCGTGGGGCAGGAGGTGGAGGGGATGAACATCTGGGCTTGGTAGTGTGGCCATCGTCTTGGTGTGGC
GCTGCGGAAGCTGGGGCCTGAAGGGGAGCTGCTTATCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTTCT
GGTCTCTGGATCATGTGGTACGCCCCGTGTTGGCATCATGTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGA
TGTGGGTTTACTCTTTGCCCGCCTTGGCAAGTACATTCTGTGCTGCCTGCTGGGTACGCCATCCATGGGCTCCT
GGTACTGCCCCCTCATCTACTTCTCTTACCCGCAAAAACCCCTACCGCTTCTGTGGGGCATCGTGACGCCGCT
GGCCACTGCCTTTGGGACCTCTTCCAGTTCCGCCACGCTGCCGCTGATGATGAAGTGCGTGGAGGAGAATAATGG
CGTGGCCAAGCACATCAGCCGTTTCATCCTGCCATCGGCGCCACCGTCAACATGGACGGTGCCGCGCTCTTCCA
GTGCGTGGCCGAGTGTTTCAATTGCACAGCTCAGCCAGCAGTCCTTGGACTTCGTAAAGATCATCACCATCCTGGT
CACGGCCACAGCGTCCAGCGTGGGGGCAGCGGGCATCCCTGCTGGAGGTGTCCTCACTCTGGCCATCATCCTCGA
AGCAGTCAACCTCCCGGTGACCATATCTCCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCTGTACCGT
CCTCAATGTAGAAGGTGACGCTCTGGGGGCAGGACTCCTCCAAAATTACGTGGACCGTACGGAGTCGAGAAGCAC
AGAGCCTGAGTTGATAACAAGTGAAGAGTGAGCTGCCCCCTGGATCCGCTGCCAGTCCCCACTGAGGAAGGAAACCC
CCTCCTCAAACACTATCGGGGGCCCCGAGGGGATGCCACGGTCGCCTCTGAGAAGGAATCAGTCATGTAAACCCC
GGGAGGGACCTTCCCTGCCCTGCTGGGGGTGCTCTTTGGACACTGGATTATGAGGAATGGATAAATGGATGAGCT
AGGGCTCTGGGGGTCTGCCTGCACACTCTGGGGAGCCAGGGGGCCCCAGCACCCCTCCAGGACAGGAGATCTGGGAT
GCCTGGCTGCTGGAGTACATGTGTTTACAAGGGTTACTCCTCAAACCCCCAGTTCTCACTCATGTCCCCAACTC
AAGGCTAGAAAACAGCAAGATGGAGAAATAATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCTGTCT
TCAGGGAGCAGGTACAGGTACCATGGGGAATTCTAGCCCCACTGGGGGGATGTTACAACACCATGCTGGTTA
TTTTGGCGGCTGTAGTTGTGGGGGATGTGTGTGTGCAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTTCTGTGACCTCCTGTCCCCATGGTACGTCCCACCCTGTCCCAGATCCCCTATTCCCTCCACAATAACAGAAA
CACTCCCAGGGACTCTGGGGAGAGGCTGAGGACAAATACCTGCTGTCACTCCAGAGGACATTTTTTTTTAGCAATA
AAATTGAGTGTCAACTATTT

5954/6881
FIGURE 5490

MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGLGVSGA
GGALALGPERLSAFVFPGELLRLLRMIILPLVVCSLIGGAASLDPGALGRLGAWALLFFLVTTLLASALGVGLA
LALQPGAASAAINASVGAAGSAENAPSKEVLDSFLDLARNIFPSNLVSAAFRSYSTTYEERNITGTRVKVPVGQE
VEGMNILGLVVFAIVFGVALRKLGPGEELLIRFFNSFNEATMVLVSWIMWYAPVGIMFLVAGKIVEMEDVGLLFA
RLGKYILCCLLGHAHGLLVPLIYFLFTRKNPYRFLWGIVTPLATAFGTSSSSATLPLMMKCVEENNGVAKHIS
RFILPIGATVNMDGAALFQCVAAVFIAQLSQSLDFVKIITILVTATASSVGAAGIPAGGVLTLAILEAVNLPV
DHISLILAVDWLVDRSCTVLNVEGDALGAGLLQNYVDRTESRSTEPELIQVKSELPLDPLPVPTEEGNPLLKHRY
GPAGDATVASEKESVM

[illegible]

5956/6881
FIGURE 5492

ATGATGGAGGAGCGAGCGGCCGCGCGGTGCGCCGCCGCCCTCCTCCTGCCGTCCGCTCGGCTCAGGCGCGGGC
CCTGGCCCCACTGGGGCGGCCCGGTCTCCGCCCTGCCCCGGGCGGGCCCGGCAGGTAAGGGAGGCGGGCGG
GGAGGCAGCCCCGGGCCACGGCGGGCCCGGAGCCCCTGAGCCTGCCGGGGATCCTGCACTTTATCCAGCACGAG
TGGGCGCGCTTCGAAGCCGAGAAAGCCCGCTGGGAGGCCGAGCGCGCCGAGTTACAGGCTCAGGTGGCCTTCCTT
CAGGGAGAGAGGAAAGGGCAGGAGAATCTAAAGACGGACCTGGTGCGGCGGATCAAGATGCTAGAGTATGCGCTG
AAGCAGGAAAGGGCCAAATATCATAAACTGAAGTTTGGGACAGACCTGAACCAGGGGGAGAAGAAAGCAGATGTG
TCAGAACAAGTCTCCAATGGCCCCGTGGAATCGGTACCCCTGGAGAACAGCCCGTTGGTGTGGAAGGAGGGGCGG
CAGCTTCTCCGACAGTACCTGGAAGAGGTGGGCTACACAGACACCATCCTCGACATGCGGTCCAAGCGCGTCCGT
TCCCTGCTGGGCGCTCGCTGGAGCTCAACGGGGCAGTGGAGCCGAGTGAAGGGCCCCCAGGGCTCCACCAGGC
CCTGCAGGGCTCAGTGGTGGGGAGTGCCTGCTGGTGAAACAGATCGAGGAGCAGATAAAGAGGAACGCGGCAGGC
AAAGATGGCAAAGAGCGCTTGGGCGGCTCAGTGTGGGGCAGATCCCTTCTCGCAGAACTGCGAGGACGAAGAC
AGCGACGAGGACGATGAGCTGGACAGCGTGCAGCACAAGAAGCAGCGTGTGAAGCTCCCATCCAAGGCTCTGGTG
CCCGAAATGGAAGACGAGGATGAGGAAGACGACTCTGAGGATGCTATCAATGAGTTTGATTTCCTGGGCTCAGGA
GAGGATGGGGAAGGGGCTCCAGACCCTCGGCGGTGCACTGTGGATGGGAGCCCCATGAGCTGGAAAGCCGTGCG
GTCAAACCTCCAAGGCGTTCTGGCTGACCTGCGGGATGTGGATGGGCTGCCCCAAAAGTGACTGGCCCGCTCCT
GGCACACCCAGCCCCGGCCACATGAAGACGTCTTCATCATGGACACTATCGGGGGCGGGGAGGTGAGCCTGGGG
GACTTGGCAGATCTCACCGTCACCAACGACAACGACCTCAGCTGCGATCTGTCTGACAGCAAAGATGCTTTTAAAG
AAGACGTGGAACCCCAAGTTCACCCTGCGCTCGCACTACGACGGCATTTCGTTCCCTGGCCTTCCACCACAGCCAG
TCGGCTCTGCTCACCGCTCCGAGGACGGCAGCTCAAGCTCTGGAACCTGCAGAAGGCGGTACGGGCCAAGAAG
AATGCGGCGCTAGATGTGGAACCTATACATGCTTTCCGGGCTCACAGGGGGCCAGTGTGGCTGTGGCTATGGGC
AGCAACAGTGAATACTGCTACAGTGGCGGGGAGATGCCTGCATCCATAGTTGGAAGATTCCAGACCTCAGCATG
GATCCCTATGATGGCTACGACCCAAGCGTGTGAGCCACGTCTTGGAGGGCCACGGGGACGCCGTGTGGGGCCTG
GCCTTCAGTCCCACTCCAGCGCCTGGCCTCCTGTTCTGCTGATGGCACCGTCCGCATCTGGGACCCACGAGC
AGCAGCCCCGGCCTGCCTCTGCACCTTCCCCACAGCCAGCGAGCACGGGGTCCCCACCTCAGTGGCCTTACCAGC
ACCGAGCCTGCCACATCGTGGCCTCCTTCCGCTCTGGCGACACCGTCTTGTATGACATGGAGGTTGGCAGTGCC
CTCCTCACGCTGGAGTCCCGGGGACGAGCGGTCCAACCCAGATCAACCAAGTGGTGAGTCATCCAAACCAGCCT
CTACCATCACCGCCACGACGACAGGGGCATCCGCTTCTGGACAATCGGACAGGTAAGCCGGTGCCTCCATG
GTTGCACACCTGGACGAGTACCTGCCTAGCCGTGGACCCCAACGGCGCATTCTGATGTGAGGAAGCCATGAC
TGCTCCCTGCGTCTCTGGAGCCTGGACAACAAACGTGCGTGCAGGAGATCACGGCCCCACGCAAGAAGCACGAG
GAGGCCATCCACGCTGTTGCCCTGCCACCCACGCAAGGCCCTCATTGCCAGTGTGGCGCTGATGCCCTGGCCAAG
GTCTTCGTAT**ATGAT**GCCCACCTGGCCCTGCCCTGGCCGCCACGCTGGCTGGGGTGAGGGCCGGGCAGGTGGGGCT
GAGGGGACTCCAGCCTCGCTGGAGGTGCAGAGGCCTGGCCTCTGTCTGTTTGCCATGGAGCCTGGTGGTGCTAA
CGGCCCTTTCCCCAGGAATCCCTCCCCAACGGCTGCCTTCCCCAAGCATCCAGCCTGGGGATGGGCCCTTTTCCAG
GAATCACCCCGAGGATGGCCTCGGGGTTTCCCCCTGTGCCCTGACAGCCGCTCCTGGTATCAGAGCTGCTTTCC
AGAGGGCAGCACAGCCAGGGCCGGGTGTCTTTAGGGATCAGTTTTTCCAAGACTCCAGAAGGTGCCAGGTTCTCC
CCTTGAGCTCCTGCTCCCCCATCCCCATCCTCCCAGACCTGGGCAGGAGCTGTGCTGGGAGAAAGGTGGCAGC
CGGGAGCCTCAGAGCTGAGCCCCGGCCTGGCTGCCCCCTCCCTCCGGCCCTCTCCACTGCTTTCCAGACACTAAC
CAAGGCTTCCAGGCCAGGGATTGCCCAACACTCCTAGGGCAGCCCTCCAGCGCCCCATGGGGTCGCCCCATGGGT
AGAGACGGCTTTTCTTGTGCCCCCTCCCTGGGGCATGGAGGTTGGAGTGGGCCTCGGGTCCCCCTGAACTCCCTGTA
TATCTGTATAAATAACGGGATTTTCATGGCGCCGCCCCACCCGATTATCACTGTGTGATGGTCTCAGTCAGTCT
CCTCCCTGTCTCCACTCTTTCCCTCTATTTATTTCACTCTCTTGGTTTCTACCCTGCACCTCGGTCCCCTT
CCAGGTTCTGTTTATAAGCCCCAACCCCTCTGTCCCCTCTTGTATGTGAAAACCTGTCTCAATAAACCCCTTG
GAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5493

MMEERAAAAVAAAASSCRPLGSGAGPGPTGAAPVSAPAPGPGPAGKGGGGGSGPGPTAGPEPLSLPGILHFIQHE
WARFEAEKARWEAERAELQAQVAFLOGERKQGQENLKTDLVRRIKMLEYALKQERAKYHKLKFGTDLNQGEKKADV
SEQVSNPVPESVTLENSPLVWKEGRQLLRQYLEEVGYTDTILDMRSKRVRSLGRSLELNGAVEPSEGAPRAPPG
PAGLSGGESLLVKQIEEQIKRNAAGKDGERLGGSVLGQIPFLQNCEDSDSDDELDVQHKKQRVKLP SKALV
PEMEDEDEEDDSEDAINEFDLFGSGEDGEGAPDPRRCTVDGSPHELESRRVKLQGV LADLRDVG LPPKVTGPPP
GTPQPRPHEDVFIMDTIGGGEVSLGDLADLTVTNDNDLSCDLSDSKDAFKKTWNPKFTLRSHYDGIRSLAFHHSQ
SALLTASEDGTCLKLWNLQKAVTAKKNAALDVEPIHAFRAHRGPVLAVAMGSNSEYCYSGGADACIHSWKIPDLMS
DPYDGYDPSVL SHVLEGHGDAVWGLAFSPTSQRLASCSADGTVRIWDPSSSSPACLCTFPTASEHGVPTSVAFTS
TEPAHIVASFRSGDTVLYDMEVGSALLTLESRGSSGPTQINQVVSHPNQPLTITAHDDRGIRFLDNRTGKPVHSM
VAHLDAVTCLAVDPNGAFLMSGSHDCSLRLWSLDNKTCVQEITAHRRKKHEEAIHAVACHPSKALIASAGADALAK
VFV

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FIGURE 5494

AGTCCGAGTGGAGAGAGCGAGCTGAGTGGTTGTGTGGTCGCGTCTCGGAAACCGGTAGCGCTTGCAGC**ATGG**CTG
ACCAACTGACTGAAGAGCAGATTGCAGAATTCAAAGAAGCTTTTCACTATTTGACAAAGATGGTGATGGAACTA
TAACAACAAAGGAATTGGGAACTGTAATGAGATCTCTTGGGCAGAATCCACAGAAGCAGAGTTACAGGACATGA
TTAATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCCTGAATTTCTGACAATGATGGCAAGAAAAATGA
AAGACACAGACAGTGAAGAAGAAATTAGAGAAGCATTCCGTGTGTTTGATAAGGATGGCAATGGCTATATTAGTG
CTGCAGAACTTCGCCATGTGATGACAAACCTTGGAGAGAAGTTAACAGATGAAGAAGTTGATGAAATGATCAGGG
AAGCAGATATTGATGGTGATGGTCAAGTAACTATGAAGAGTTTGTACAAATGATGACAGCAAAG**TGA**AGACCTT
GTACAGAATGTGTTAAATTTCTTGTACAAAATTGTTTATTTGCCTTTTCTTTGTTTGTAACCTTATCTGTAAAGG
TTTCTCCCTACTGTCAAAAAAATATGCATGTATAGTAATTAGGACTTCATTCCCTCCATGTTTTCTTCCCTTATCT
TACTGTCATTGTCCTAAACCTTATTTTAGAAAATTGATCAAGTAACATGTTGCATGTGGCTTACTCTGGATATA
TCTAAGCCCTTCTGCACATCTAACTTAGATGGAGTTGGTCAAATGAGGGAACATCTGGGTTATGCCTTTTTTAA
AGTAGTTTTCTTTAGGAACTGTCAGCATGTTGTTGTTGAAGTGTGGAGTTGTAACCTCTGCGTGGACTATGGACAG
TCAACAATATGTACTTAAAAGTTGCACTATTGCAAAACGGGTGTATTATCCAGGTACTCGTACACTATTTTTTTG
TACTGCTGGTCCTGTACCAGAAACATTTTCTTTTATTGTTACTTGCTTTTTAACTTTGTTTAGCCACTTAAAAT
CTGCTTATGGCACAATTTGCCTCAAAATCCATTCCAAGTTGTATATTTGTTTTCCAATAAAAAAATTACAATTTA
CCC

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FIGURE 5495

MADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMAR
KMKD TDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAK

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FIGURE 5496

GAGCCTACCAAACCTTTGGTTTCGCAGGGCTGGAGCTAAGTCTCGCTCCAGGAGAAAGAAGCAGAAGAAGAACTCC
AGGCAGGAAGCAGTGCCCTGGAAAAACCCAAAGGCATCAATTCCAACAGCACAGCTAAGTTGGAGGATCCTGAG
GTGGGTGATGCTGAAAGCATGGCGATCTCAGAGCCGATCAAGGGCAGCAGAAAGCCCTGTGTGAATAAGGAGGAG
TTGGCTTTGAAGAAGCCCATGGCGAAATGTGCCTGGAAGGGTCCCAGAGAGCCACCTCAGGATGCCCCGGGCAGAA
GCCGAGAGCCCAGGAGGCGCCTCTGAGTCAGACCAAGATGGTGGCCATGAAAGCCCACCAAAGAAGAAGGCCGTG
GCCTGGGTGTCTGCCAAGAACCCCGCTCCCATGAGGAAGAAGAAGAAGGTGAGCTTGGGCCCTGTCTCCTACGTC
TTGGTTGACTCAGAAGATGGCAGGAAGAAGCCGGTGATGCCAAAGAAAGGGCCAGGCTCAAGAAGGGAGGCATCA
GATCAGAAGGCCCTCGGGGCCAGCAGCCTGCCGAGGCAACAGCCTCAACCTCTAGGGGTCCGAAGGCCAAGCCA
GAAGGCTCTCCTCGGCGTGCCACCAATGAATCCAGAAAGGTTTGATCTGGGGGACCACCCATACTGAGGAGTTGA
AAGAACAAGGAAGAAGTACCAAGTCAACCAAGTTCTCTCTTGTCACTGAATAAGACTTTGGACTCTCTTAGGGCC
CCTGTTGATAGAGATCTGGCCCTGAGGTAAACGATAGGTGAGGTCTTGGGTGGGAGGGAGTTGGGGAAGGGAGGT
GGATCTCTATGCCCTTTTCTCTACCAGGCCTGCCGTTTACCGCCTTCTCTACTCACCTTCTCTTCGGAGGCAGG
AGAGTTGGTAAGAGGATTGGGAAAATTCTAGAACATTCAATCCCTTTATGCATGAGCAGGGTCACTGTTACACT
CATCCATGTTTCAGCTTTTCTCCCCACGCCTTGCTCCCTCCTCGGAATGGTCAGCGACCTCTGCAGGCCCTGGCA
TTTGAAGAGCTGGGTGGCCCTGCCATATTCTTCTCCGCTTCTCTCGTGTAACCAGCGGGGTAAAGTTAAGC
CAGGACCTTCGCTGCAAACCTGGTTTTATTGCTCCTTCAGTCTCCAGCTTCCATCCTCCAGTTATCTAGCCAGGA
GGTCCCAAGAGTTAGTTTTAGGGAAAAAGAATGTCTGCCTAGACCTCAAAGTCTTTGAGTTTTAGAGTCTGTTAG
TAAAAATGGCACTTTGATTCCCATTTGGGATGAGCCCTCTCAGGAATCCTGTGGGGAAGGGGGTGATTATAGGG
AAGGACGCAGGCATTCTAGGTCCCCAGCTCTAATTCCATCCATCTACCCAAGTGTCAACCATCTTGCACCAAAC
TGTCACCATCTTTGCAGCAGAAGGTCACTACTCACATTATAGTAAGAGGGGAAAAAAATCTTTTAAACTTTGGCT
GTTGGCCGGGCACGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCTGAGGCAGGTGATCACGAGGTGAG
GCGTTTAAGACCAGCTTGACCAACATGGTGAAACCCCATCTCTACAAAAATTAGCTGGGCGTGGTGCGCGCGCC
TGTAATCCCAGCTACTCAGGAGGCTGAGGCAGATGAATTGCTTGAATCCAGGAGGCAGAGGTTGCAATGAGCCGA
GATTGTGCCACGGCACTCCAGCCTGGGCAGCAGAGTGAGACTCTCTCTCAAAAAACAAACTTGGCTGTTAATG
TCTGCCCTCTGAATTCAGACACACTATATTAGACCAGACCACCATGTGTCTATTGTGTGTGTGTGTGTGTGTTT
GCGTGCGCATGTGTAGAGGAGAGAGCAGGGTCCCTGAGATAATGGTTTTCCAACTGTATCGTAGCCGTCCACAAA
GATGTAATCCAAATCTATTTTTCTCACGTGTTTAAAAAACTGAAAAGTGACTACTCAGATATGTTGGAAGTCACA
TCGAAGACTATCAGAATATTACCTTGTGTTTCATAGGTTAAGTTGTTTTGTACACGTCTTAGTTATTTAGGCAT
CTCTTTGCTTAAATTTAGTTTTCTTGTAAATGTGACTGATGAGCGAGGTTAGAAGTGAAGAAATTCCTGTGCAT
GTTCTATAATCTGACACCCTGAAAGCAAGTTTCCTTTTCGTCATTACATGCTCTTGTCTGCCGTGACTGTTTCAG
GTGTATGGTAGTAAGTAAATGTATTAACATGGTGAACAGTAGTAATATTCTATCATAGAGTATTAGCCCTTGCAA
GTTTTCAGGGCGTCTTTTCCGACTTCAGTTTTTGTGATAAAGAATGTGAACAGTTGTTAGATGTTCTCAGTGATT
CAACTTTAAACAAATTTCTCGTGATGATTCAATTTCAAATCCTGAGTGAGTCTGACTGAAAAATACGAGAGAAA
AGAGAGTGGTTTTCCGTTTGCAGCTACACAGCTGTGTGCATCGACGTTCTCCTGGGGTGTGTGCCAAGCGAAACCC
AGGGGTGAATTGGATTCTTGAAGAGACCAAAGCCTGTAAGTGTCCAGCTTCTAATTTCAAACGGGTCCATTAGG
GCTTCGTTGTGTTAACAAGTTGACACCATGACTAGTAAATGTAAACGTGTATGTATAAAATAAGTTTTAGCAAT
TAAGTGTCCTGTT

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FIGURE 5497

CGCGACGGTTCGGCCGGGTGCCGCTGGCGGCCGTTGCCAGGGTAGGGGTCGCTTTGCGGCATGGCGGAG
GGCGAGAGGACTGAGTGTGCTGAGCCCCCGGGACGAACCCCGGCTGATGGAGCTCTGAAGCGGGCAGAGGAG
CTCAAGACTCAGGCCAATGACTACTTCAAAGCCAAGGACTACGAGAACGCCATCAAGTTCTACAGCCAGGCCATC
GAGCTGAACCCAGCAATGCCATCTACTATGGCAACCGCAGCCTGGCCTACCTGCGCACTGAGTGTATGGCTAC
GCGCTGGGAGACGCCACGCGGGCCATTGAGCTGGACAAGAAGTACATCAAGGGTTATTACCGCCGGGCTGCCAGC
AACATGGCACTGGGCAAGTTCGCGGCCGCGCTGCGAGACTACGAGACGGTGGTCAAGGTGAAGCCCCATGACAAG
GATGCCAAAATGAAATACCAGGAGTGCAACAAGATCGTGAAGCAGAAGGCCTTTGAGCGGGCCATCGCGGGCGAC
GAGACAAGCGCTCCGTGGTGGACTCGCTGGACATCGAGAGCATGACCATTGAGGATGAGTACAGCGGACCCAAG
CTTGAAGACGGCAAAGTGACAATCAGTTTCATGAAGGAGCTCATGCAGTGGTACAAGGACCAGAAGAACTGCAC
CGGAAATGTGCCTACCAGATTCTGGTACAGGTCAAAGAGGTCTCTCCAAGCTGAGCACGCTCGTGGAAACCACA
CTCAAAGAGACAGAGAAGATTACAGTATGTGGGGACACCCATGGCCAGTTCTATGACCTCCTCAACATATTCGAG
CTCAACGGTTTACCCCTCGGAGACCAACCCCTATATATTTAATGGTGACTTTGTGGACCGAGGCTCCTTCTCTGTA
GAAGTGATCCTCACCCCTTTTCGGCTTCAAGCTCCTGTACCCAGATCACTTTCACCTCCTTCGAGGCAACCACGAG
ACAGACAACATGAACCAGATCTACGGTTTCGAGGGTGAGGTGAAGGCCAAGTACACAGCCCAGATGTACGAGCTC
TTTAGCGAGGTGTTTCGAGTGGCTCCCGTTGGCCAGTGCAACGGCAAAGTGCTGATCATGCACGGAGGCCTG
TTCAGTGAAGACGGTGTACCCCTGGATGACATCCGGAATTTAGCGGAATCGACAACCCCCAGATTCAGGGCCC
ATGTGTGACCTGCTCTGGTCAGATCCACAGCCACAGAACGGGCGCTCGATCAGCAAGCGGGGCGTGAGCTGTCAG
TTTGGGCCTGACGTACCAAGGCCTTCTTGAAGAGAACAACCTGGACTATATCATCCGCAGCCACGAAGTCAAG
GCCGAGGGCTACGAGGTGGCTCACGGAGGCGCTGTGTACCGTCTTCTCTGCCCCCACTACTGCGACCAGATG
GGGAACAAAGCCTCCTACATCCACCTCCAGGGCTCTGACCTACGGCCTCAGTTCACCAGTTCACAGCAGTGCCT
CATCCCAACGTCAAGCCCATGGCCTATGCCAACACGCTGCTGCAGCTAGGAATGATGTGAGGTGACGGGCGGGC
GGCCTGCATCCCAGGGCCCCCTCCAATCCACCGGACCCAGGCCCTGGGCTAGGGGCAGAGCAGGCCCCGCCCCAG
GGCAATGTTGGACCCCTTTTACTTTGTAAAGTTTGATTTTATTTCCCTTTAGGTTTGCAGAGGGGGTAGGGGCA
GAGTCAGGGGCTGGCCAGAGGGTCTGCTCCCTGGACAGAGAGGAAGGAGGTGGAGCAGCTGGGGCTGGGGGCACA
GCCTGGGCATTCTGTGGGGAGGCCGTCTCGGGGTGGGGTGGGGCCGAGTGGCTGCCCTGCCCCCTCATTTGCA
TGGCTCCTCCCCACTCAAGCAATAGGGCCCCGCCATAGGAAGACCCCCAGAGAGAGGGTTCAGCAGGGGGGCCCC
GCCTGCGCCTCCCTCCTATAGCCCCATGGTGGGGCTAGGCTGGGGCTCACCCCCCTCCCCAGCTATTTTATGTC
TGTAATTAAATATGTTAAATAAAGTCATTATCGGAAAAAAAAAAAAAA

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FIGURE 5498

MAMAEGERTECAEPPRDEPPADGALKRAEELKTQANDYFKAKDYENAIKFYSQAIELNPSNAIYYGNRSLAYLRT
ECYGYALGDATRAIELDKKYIKGYRRAASNMA LGKFRAALRDYETVVKVPHDKDAKMKYQECNKIVKQKA FER
AIAGDEHKRSVVDSLDIESMTIEDEYSGPKLEDGKVTISFMKELMQWYKDQKKLHRKCAYQILVQVKEVLSKLST
LVETTLKETEKITVCGDTHGQFYDLLNIFELNGLPSETNPYIFNGDFVDRGSFSVEVILTTFGFKLLYPDHFHLL
RGNHETDNMNQIYGFEGEVKAKYTAQMYELFSEVFEWLPLAQ CINGKVLIMHGGLFSEDGVTLDDIRKIERNRQP
PDSGPMCDLLWSDPQPQNGRSISKRGVSCQFGPDVTKAFLEENNLDYIIRSHEVKAEGYEV AHGGRCVTVFSAPN
YCDQMGNKASYIHLQGSDLRPQFHQFTAVPHPNVKPMAYANTLLQLGMM

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FIGURE 5499

CCCCTTCCTGTGGGGTTCATTGGGGCATCCCTTTCTGCTGCAGGAACCTCTCATCAGACCGCCTGAGGGAAGCG
GCGCCCGGAGACCCGCCCCGCGCCGGTCCACATTCTCCCAGGAAGCCGGACTCTATGGGGCGGGACCCTGGGGG
AGCCTGAGCCGAGCCCGGAGCCAGCCCCGAACCCCTGAACCTCCAGCCAGGGGCGCCCCGGGAGCAGCCAGCCCG
TGGGCGAGCCGCCCCGCCCCGCGAGCAGCCATGAGCGAGACGGTCATCTGTTCCAGCCGGGCCACTGTGATGCTTT
ATGATGATGGCAACAAGCGATGGCTCCCTGCTGGCACGGGTCCCCAGGCCTTCAGCCGCTCCAGATCTACCACA
ACCCACGGCCAATTCCCTTTCGCGTCGTGGGCCGGAAGATGCAGCCCGACCAGCAGGTGGTCATCAACTGTGCCA
TCGTCCGGGGTGTCAAGTATAACCAGGCCACCCCCAACTTCCATCAGTGGCGCGACGCTCGCCAGGTCTGGGGCC
TCAACTTCGGCAGCAAGGAGGATGCGGCCAGTTTGCGCCGGCATGGCCAGTGCCCTAGAGGCGTTGGAAGGAG
GTGGGCCCCCTCCACCCCCAGCACTTCCACCTGGTCGGTCCCGAACGGCCCCCTCCCCGGAGGAGGTGGAGCAGC
AGAAAAGGCAGCAGCCCGGCCCGTCGGAGCACATAGAGCGCCGGGTCTCCAATGCAGGAGGCCCCACCTGCTCCCC
CCGCTGGGGGTCCACCCCCACCACCAGGACCTCCCCCTCCTCCAGGTCCCCCCCCACCCCCAGGTTTGCCCCCTT
CGGGGGTCCAGCTGCAGCGCACGGAGCAGGGGAGGACCACCCCTGCACCCCCCTCTCCCGGCAGCACAGGGCC
CTGGTGGTGGGGAGCTGGGGCCCCAGGCCTGGCCGCAGCTATTGCTGGAGCCAAACTCAGGAAAGTCAGCAAGC
AGGAGGAGGCCTCAGGGGGGCCACAGCCCCCAAAGCTGAGAGTGGTGAAGCGGAGGTGGGGGACTCATGGAAG
AGATGAACGCCATGCTGGCCCCGAGAAGGAAAGCCACGCAAGTTGGGGAGAAAACCCCCAAGGATGAATCTGCCA
ATCAGGAGGAGCCAGAGGCCAGAGTCCCGGCCCAGAGTGAATCTGTGCGGAGACCCTGGGAGAAGAACAGCACAA
CCTTGCCAAGGATGAAGTCGTCTTCTTCGGTGACCATTCCGAGACCCAACCCTGCACGCCCAGCTCCAGTGATT
ACTCGGACCTACAGAGGGTGAAACAGGAGCTTCTGGAAGAGGTGAAGAAGGAATTGCAGAAAGTGAAAGAGGAAA
TCATTGAAGCCTTCGTCCAGGAGCTGAGGAAGCGGGTTCTCCCTTGACCCACAGGGACCCAGAAGACCCGCTTCTC
CTTTCCGCACACCCGGCCTGTCACCCCTGCTTTCCCTGCCTCTACTTGACTTGGAATTGGCTGAAGACACAGGAAT
GCATCGTTCCCACTCCCCATCCCACCTTGAAAACCTCCAAGGGGTGTGGCTTCCCTGCTCACACCCCACTGGCT
GCTGATTGGCTGGGGAGGCCCCCGCCCTTTTCTCCCTTTGGTCCTTCCCTCTGCCATCCCCCTGGGGCCGGTCC
CTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGGGGAAGGAAGGAGGGAATTCACATTCCCTTGTTCTAG
ATTCACTTTAACGCTTAATGCCCTTCAAAGTTTTGGTTTTTTTAAAGAAAAAATATATATATATTGGGTTTTG
GGGAAAAGGGAATTTTTTTTCTTTTGGTTTTTGATAAAATGGGATGTGGGAGTTTTTAAATGCTATAGCCCT
GGGCTTGCCCCATTTGGGGCAGCTATTTAAGGGGAGGGGATGTCTCACCGGGCTGGGGGTGAGATATCCCCCAC
CCCAGGACTCCCCCTCCCTCTGGCTCCTTCCCCTTTTCTATGAGGAAATAAGATGCTGTAACTTTTTGGAACCT
CAGTTTTTTGATTTTTTATTGGGTAGTTTTTGGGTCCAGGCCATTTTTTTTACCCCTTGGAGGAAATAAGATG
AGGGAGAAAGGAGAAGGGGAGGAACTTCTCCCTCCCACCTTACCTTTAGCTTCTTGAAAATGGGCCCCCTGCA
GAATAAATCTGCCAGTTTTTTATAAAAAAAAAA

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FIGURE 5500

MSETVICSSRATVMLYDDGNKRWLPAGTGPOAFSRVQIYHNPTANSFRVVGRKMOPDQQVVINCAIVRGVKYNQA
TPNFHQWRDARQVWGLNFGSKEDAAQFAAGMASALEALEGGGPPPPPALFTWSVPNGPSPEEVEQQKRQQPGPSE
HIERRVSNAGGPPAPPAGGPPPPPGPPPPPGPPPPGLPPSGVPAAAHGAGGGPPFAPPLPAAQGPGGGGAGAPG
LAAAIAGAKLRKVSKQEEASGGPTAPKAESGRSGGGGLMEEMNAMLARRRKATQVGEKTPKDESANQEEPEARVP
AQSESVRRPWKKNSTTLPRMKSSSSVTTSETQPCTPSSSDYSDLQRVKQELLEEVKKELQKVKEEIEAFVQELR
KRGSP

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FIGURE 5501

ACAGTAGTAAGAGTAACACTGTAGCCGCCACCGGCAAGGGGTGCGCGCTGGGGAGCGGACGCTGCATCCCCTTTC
TGCTGCAGGAACCTCTCATCAGACCGCCTGAGGGAAGCGGCGCCCGGAGACCCGCCCCGGCCCGGTCCACATTCT
CCCTGACCACAGGGACCCAGAAGACCCGCTTCTCCTTTCGCGACACCCGGCCTGTCACCCTGCTTTCCTGCCTC
TACTTGACTTGGAATTGGCTGAAGACTACACAGGAATGCATCGTTCCCACTCCCCATCCCCTTGGAATACTCCA
AGGGGGTGTGGCTTCCCTGCTCACACCCACACTGGCTGCTGATTGGCTGGGGAGGCCCCCGCCCTTTCTCCCTT
TGGTCCTTCCCCTCTGCCATCCCCTTGGGGCCGGTCCCTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGG
GGAAGGAAGGAGGGAATTTACATTCCCTTGTCTAGATTCACTTTAACGCTTAATGCCTTCAAAGTTTGGTTT
TTTTAAGAAAAAAAATATATATATATTTGGGTTTTGGGGAAAAGGAAATTTTTTTTCTCTTTGGTTTTGAT
AAAATGGGATGTGGGAGTTT

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FIGURE 5502

AAGTGCTGCGAGCCCTGGGCCACGCTGGCCGTGCTGGCAGTGGGCCCGCCTCGATCCCTCTGCAGTCTTTCCCTTG
AGGCTCCAAGACCAGCAGGTGAGGCCTCGCGGCGCTGAAACCGTGAGGCCCGGACCACAGGCTCCAGATGGACCC
TGGGAAGGACAAAGAGGGGGTGCCCCAGCCCTCAGGGCCGCCAGCAAGGAAGAAATTTGTGATACCCCTCGACGA
GGATGAGGTCCCTCCTGGAGTGGCCAAGCCCTTATTCCGATCTACACAGAGCCTTCCCACTGTGGACACCTCGGC
CCAGGCGGGCCCTCAGACCTACGCCGAATATGCCATCTCACAGCCTCTGGAAGGGGCTGGGGCCACGTGCCCCAC
AGGGTCAGAGCCCTTGGCAGGAGAGACGCCCAACCAGGCCCTGAAACCCGGGGCAAAATCCAACAGCATCATTGT
GAGCCCTCGGCAGAGGGGCAATCCCGTACTGAAGTTCGTGCGCAACGTGCCCTGGGAATTTGGCGACGTAATTCC
CGACTATGTGCTGGGCCAGAGCACCTGTGCCCTGTTCTCAGCCTCCGCTACCACAACCTGCACCCAGACTACAT
CCATGGGCGGCTGCAGAGCCTGGGGAAGAACTTCGCCTTGCGGGTCCTGCTTGTCCAGGTGGATGTGAAAGATCC
CCAGCAGGCCCTCAAGGAGCTGGCTAAGATGTGTATCCTGGCCGACTGCACATTGATCCTCGCCTGGAGCCCCGA
GGAAGCTGGGCGGTACCTGGAGACCTACAAGGCCTATGAGCAGAAACCAGCGGACCTCCTGATGGAGAAGCTAGA
GCAGGACTTCGTCTCCCGGGTGACTGAATGTCTGACCACCGTGAAGTCAGTCAACAAAACGGACAGTCAGACCCT
CCTGACCACATTTGGATCTCTGGAACAGCTCATCGCCGCATCAAGAGAAGATCTGGCCTTATGCCCAGGCCTGGG
CCCTCAGAAAGCCCGGAGGCTGTTTGATGTCCTGCACGAGCCCTTCTTGAAAGTACCCTTGATGACCCCAGCTGCC
AAGGAAACCCCAAGTGTAAATAATAAATCGTCCTCCAGGCCAGGCTC

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FIGURE 5503

MDPGKDKEGVPQPSGPPARKKFVIPLDEDEVPPGVAKPLFRSTQSLPTVDTSAQAAPQTYAEYAISQPLEGAGAT
CPTGSEPLAGETPNQALKPGAKSNSIIVSPRQRGNPVLKFVRNVPWEFGDVIPDYVLGQSTCALFLSLRYHNLHP
DYIHGRLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLILAWSPEEAGRYLETYKAYEQKPADLLME
KLEQDFVSRVTECLTTVKS VNKTDSQTLLTTFGSLEQLIAASREDLALCPGLGPQKARRLFDVLHEPFLKVP

[illegible]

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FIGURE 5505

MEEPQAGDAARFSCPPNFTAKPPASESPRFSLEALTGPDTELWLIQAPADFAPECFNGRHVPLSGSQIVKGKLAG
KRHRVRLSSCPQAGEATLLAPSTEAGGGLTCASAPQGTLRILEGPQQSLSGSPLOPIPASPPPQIPPGLRPRFC
AFGGNPPVTGPRSALAPNLLTSGKKKKEMQVTEAPVTQEAVNGHGALEVDMALGSPEMDVRKKKKKKKNQQLKEPE
AAGPVGTEPTVETLEPLGVLPSTTKKRKKPKGKETFEPEDKTVKQEQINTEPLEDTVLSPTKKRKRQKGTEGME
PEEGVTVESQPQVKVEPLEEAIPLPPTKKRKKEKGQMAMMEPGTEAMEPVEPEMKPLESPGGTMAPQQPEGAKPQ
AQAALAAPKKKTKKEKQQDATVEPETEVVGPELPDDLEPQAAPTSTKKKKKKKERGHTVTEPIQPLEPELPGEGQ
PEARATPGSTKKRKKQSQESRMPETVPQEEMPGPPLNSESCEEAPTGRDKKRKQQQQQPV

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FIGURE 5506A

CGCCTCCCTCCGCCGCCGCTTGGGCGGGCTCCGCGCCCCCTCCGCGGCCCCCGCCCGCCGCTGCCCGCCGCC
CCATGGCGCCCCGGGTCCCCGCTGCACGGGGCCACTAGGACCCCTCGGCGTCCCTTCCCCCTCCCCGCCCTGCCCC
CTCTCCCGCCGCGCGGACCCGGGCGTTCTCGGCGCCAGCTTTTGTAGCTCGCGTCCCCAGGCCGGCGGGGGGGA
GGGGAAGAGAGGGGACCCTGGGACCCCCGCCCCCCCCACCCGGCCGCCCTGCCCGCCGGGACCCGGAGAAG**ATG**

TCTTCGCGGACGGTGCTGGCCCCGGGCAACGATCGGAACTCGGACACGCAATGGCACCTTGGGCAGTGGCCGCTCC
TCGGACAAAGGCCCGTCCCTGGTCCAGCCGCTCACTGGGTGCCCGTTGCCGGAATCCATCGCCTCCTGTCCCGAG
GAGCAGCCCCACGTGGGCAACTACCGCCTGCTGAGGACCATTGGGAAGGGCAACTCTGCCAAAGTCAAGCTGGCT
CGGCACATCCTCACTGGTCGGGAGGTTGCCATCAAGATTATCGACAAAACCCAGCTGAATCCCAGCAGCCTGCAG
AAGCTGTTCCGAGAAGTCCGCATCATGAAGGGCTAAACCACCCCAACATCGTGAAGCTCTTTGAGGTGATTGAG
ACTGAGAAGACGCTGTACCTGGTGATGGAGTACGCAAGTGTGGAGAAGTGTGTGACTACCTCGTGTGCGATGGC
CGCATGAAGGAGAAGGAAGCTCGAGCCAAGTTCGACAGATTGTTTCGGCTGTGCACTATTGTACCAGAAAAAT
ATTGTACACAGGGACCTGAAGGCTGAGAACCTCTTGCTGGATGCCGAGGCCAACATCAAGATTGCTGACTTTGGC
TTCAGCAACGAGTTACGCTGGGATCGAAGCTGGACACGTTCTGCGGGAGCCCCCATATGCCGCCCGGAGCTG
TTTCAGGGCAAGAAGTACGACGGGCGGAGGTGGACATCTGGAGCCTGGGAGTCATCCTGTACACCCTCGTCAGC
GGCTCCCTGCCCTTCGACGGGCACAACCTCAAGGAGCTGCGGGAGCGAGTACTCAGAGGGAAGTACCGGGTCCCT
TTCTACATGTCAACAGACTGTGAGAGCATCCTGCGGAGATTTTTGGTGCTGAACCCAGCTAAACGCTGTACTCTC
GAGCAAATCATGAAAGACAAATGGATCAACATCGGCTATGAGGGTGAGGAGTTGAAGCCATACACAGAGCCCGAG
GAGGACTTCGGGGACACCAAGAGAATTGAGGTGATGGTGGGTATGGGCTACACACGGGAAGAAATCAAAGAGTCC
TTGACCAGCCAGAAGTACAACGAAGTGACCGCCACCTACCTCCTGCTGGGCAGGAAGACTGAGGAGGGTGGGGAC
CGGGGCGCCCCAGGGCTGGCCTGGCACGGGTGCGGGCGCCAGCGACACCACCAACGGAACAAGTTCAGCAAA
GGCACCAGCCACAGCAAAAGGGCAGCGGAGTTCTCTTCCACCTACCACCGCCAGCGCAGGCATAGCGATTTCTGT
GGCCCATCCCCTGCACCCCTGCACCCCAAACGCAGCCCCGACGAGCACGGGGGAGGCGGAGCTGAAGGAGGAGCGG
CTGCCAGGCCGGAAGGCGAGCTGCAGCACCGCGGGGAGTGGGAGTCGAGGGCTGCCCCCTCCAGCCCCATGGTC
AGCAGCGCCCAACCCCCAACAAAGGCAGAGATCCAGAGCGGCGGAAGGACAGCACGAGCACCCCCAACAACTC
CCTCTAGCATGATGACCCGCGAGAAACACCTACGTTTGACAGAACGCCCGGGGGCTGAGCGCCCGTCACTGTTG
CCAAATGGGAAAAGAAAACAGCTCAGGCACCCACGGGTGCCCTTCCCTCCCCCTCCAGTCACAGCCTGGCACCC
CCATCAGGGGAGCGGAGCCGCTGGCACGCGGTTCCACCATCCGACACCTTCCATGGTGGCCAGGTCCGGGAC
CGGCGGGCAGGGGGTGGGGGTGGTGGGGGTGTGAGAATGGGCCCCCTGCCTCTCCACACTGGCCCATGAGGCT
GCACCCCTGCCCCGCCGGGCGCCCCGCCACCACCAACCTCTTACCAAGCTGACCTCCAACTGACCCGAAGG
GTTACCCCTCGATCCCTCTAAACGGCAGAACTCTAACCCTGTGTTTCGGGCGCCTCTCTGCCCCAGGGATCCAAG
ATCAGGTGCGAGACGAACCTGAGAGAATCGGGGACCTGAGGTACAAAGTTGCCATCTACCTTGGGATCAAACGG
AAACCGCCCCCGGCTGCTCCGATTCCCTTGGAGTGT**TGA**AGCTGACCAGCTCGCGCCCTCCTGAGGCCCTGATGG
CAGCTCTGCGCCAGGCCACAGCAGCCGCCGCTGCCGCTGCCGCCAGCCACAGCCGTTCTGCTGGCCTGCCTGC
ACGGGGGTGCGGGCGGGCCCGAGCCCTGTCCACTTCGAAGTGGAGGTCTGCCAGCTGCCCCGGCCAGGCTTGC
GGGAGTTCTCTTCCGCCGTGTGGCGGGCACCGCCCTGGCCTTCCGCACCCCTCGTCACCCGCATCTCCAACGACC
TCGAGCTCTGAGCCACCACGGTCCCAGGGCCCTTACTCTTCTCTCCCTTGTGCGCTTCACTTCTACAGGAGGGG
AAGGGGCCAGGGAGGGGATTCTCCCTTTATCATCACCTCAGTTTCCCTGAATTATATTGGGGGCAAAGATTGTC
CCCTCTGCTGTTCTCTGGGGCCGCTCAGCACAGAAGAAGGATGAGGGGGCTCAGCGGGGGGAGCTGGCACCTTCC
TGGAGCCTCCAGCCAGTCTGTCTCCCTCGCCCTACCAAGAGGGCACCTGAGGAGACTTTGGGGACAGGGCAGG
GGCAGGGAGGGAACTGAGGAAATCTTCCATTCTCCCAACAGCTCAAAATTAGGCCTTGGGCAGGGGCAGGGAG
AGCTGCTGAGCCTAAAGACTGGAGAATCTGGGGGACTGGGAGTGGGGGTGAGAGAGGCAGATTCTTCCCTCCC
GTCCCTCACGCTCAAACCCCCACTTCTGCCCCAGGCTGGCGCGGGGCACTTTGTACAAATCCTTGTAATAACC
CCACACCCTCCCTCTGCAAAGGTCTCTTGAGGAGCTGCCGCTGTACCTACGGTTTTTAAGTTATTACACCCCG
ACCCTCCTCCTGTGACCCCCCTCACCTGCAGCCTGTTGCCCAATAAATTTAAGAGAGTCCCCCCTCCCCAATGC
TGACCCTAGGATTTTCTTCCCTGCCCTCACCTGCAAATGAGTTAAAGAAGAGGCGTGGGAATCCAGGCAGTGGT
TTTTCTTTTCGGAGCCTCGGTTTTCTCATCTGCAGAATGGGAGCGGTGGGGGTGGGAAGGTAAGGATGGTCGTGG
AAGAAGGCAGGATGGAACCTCGGCCTCATCCCCGAGGCCCCAGTTCTATATCGGGCCCCCATTCATCCACTCAC
ACTCCAGCCACCATGTTACACTGGACTCTAAGCCACTTCTTACTCCAGTAGTAAATTTATTGCAATAACAATC

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FIGURE 5506B

ATTGAXCCC

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FIGURE 5507

MSSRTVLAPGNDRNSDTHGTLGSGRSSDKGPSWSSRSLGARCNSIASCPPEEQPHVGNRYRLLRITIGKNSAKVKL
ARHILTGREVAIKIIDKTQLNPSSLQKLFREVRIMKGLNHPNIVKLFEVIETEKTLYLVMYASAGEVFDYLVSH
GRMKEKEARAKFRQIVSAVHYCHQKNIVHRDLKAENLLDAAENIKIADFGFSNEFTLGSKLDTFCGSPPYAAPE
LFQGGKYDGPVWDIWSLGVILYTLVSGSLPFDGHNKELRERVLRGKYRVPFYMSTDCESILRRFLVLNPAKRCT
LEQIMKDKWINIGYEGEELKPYTEPEEDFGDTKRIEVMVGMGYTREEIKESLTSQKYNEVTATYLLLGRKTEEGG
DRGAPGLALARVRAPSDTTNGTSSSKGTSHSKGQRSSSSTYHRQRRHSDFCGPSPAPLHPKRSPTSTGEAELKEE
RLPGRKASCSTAGSGSRGLPPSSPMVSSAHNPNAEIPERRKDSTSTPNNLPPSMMTRNTYVCTERPGAERPSL
LPNGKENSSTGTPRVPPASPSSHSLAPPSGERSRLARGSTIRSTFHGGQVRDRRAGGGGGGGVQNGPPASPTLAHE
AAPLPAGRPRPTTNLFTKLTSKLTRRVTLDPKQRQNSNRCVSGASLPQGSKIRSQTNLRESGDLRSQVAIYLGK
RKPPPGCSDSPGV

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FIGURE 5508

ACCCGGAGCGGGAAGATGGCGGCGGCGCAGGAGGCGGACGGGGCCCCGCAGCGCCGTGGTGGCGGCCGGGGGAGGC
AGCTCCGGTCAGGTGACCAGCAATGGCAGCATCGGGAGGGACCCGCCAGCGGAGACCCAGCCTCAGAACCCACCG
GCCCAGCCGGGCACCCAATGCCTGGCAGGTTCATCAAAGGTGTGCTGTTTAGGATCTTCATCATCTGGGCCATCAGC
AGTTGGTTCGCGCGAGGGCCGGCCCCCTCAGGACCAGGCGGGCCCCGGAGGAGCCCCACGCGTCGCCAGCCGCAAC
CTGTTCCCCAAAGACACTTTAATGAACCTGCATGTGTACATCTCAGAGCACGAGCACTTTACAGACTTCAACGCC
ACGTCGGCACTCTTCTGGGAACAGCACGATCTTGTGTATGGCGACTGGACTAGCGGCGAGAACTCAGACGGCTGC
TACGAGCACTTTGCTGAGCTCGATATCCACAGAGCGTCCAGCAGAACGGCTCCATCTACATCCACGTTTACTTC
ACCAAGAGTGGCTTCCACCCAGACCCCCGGCAGAAGGCCCTGTACCGCCGGCTTGCCACAGTCCACATGTCCCGG
ATGATCAACAAATACAAGCGCAGACGATTTTCAAAAACCAAGAACCTGCTGACAGGAGAGACAGAAGCGGACCCA
GAAATGATCAAGAGGGCTGAGGACTATGGGCCTGTGGAGGTGATCTCCCATTTGGCACCCCAACATCACCATCAAC
ATCGTGGACGACCACACGCCGTGGGTGAAGGGCAGTGTGCCCCCTCCCCCTGGATCAATATGTGAAGTTCGACGCC
GTGAGCGGTGACTACTATCCCATCATCTACTTCAATGACTACTGGAACCTGCAGAAGGACTACTACCCCATCAAC
GAGAGCCTGGCCAGCCTGCCGCTCCGCGTCTCCTTCTGCCACTCTCGCTTTGGCGCTGGCAGCTCTATGCTGCC
CAGAGCACCAGTGCCTTGAACTTCTTGGGCGATGAGTTGTACGAGCAGTCAGATGAGGAGCAGGACTCGGTG
AAGGTGGCCCTGCTGGAGACCAACCCCTACCTGCTGGCGCTCACCATCATCGTGTCTATCGTTACAGTGTCTTC
GAGTTCCTGGCCTTCAAGAATGATATCCAGTTCTGGAACAGCCGGCAGTCCCTGGAGGGCCTGTCCGTGCGCTCC
GTCTTCTTCGGCGTTTTTCCAGTCATTCTGTTGCTCTCTACATCCTGGACAACGAGACCAACTTCGTGGTCCAG
GTCAGCGTCTTCATTGGGGTCTCATCGACCTCTGGAAGATCACCAAGGTTCATGGACGTCCGGCTGGACCGAGAG
CACAGGGTGGCAGGAATCTTCCCCGCTATCCTTCAAGGACAAGTCCACGTATATCGAGTCTCGACCAAAGTG
TATGATGATATGGCATTCCGGTACCTGTCTGGATCCTCTTCCCGCTCCTGGGCTGCTATGCCGTCTACAGTCTT
CTGTACCTGGAGACAAGGGCTGGTACTCCTGGGTGCTCAGCATGCTCTACGGCTTCTGCTGACCTTCGGCTTC
ATCACCATGACGCCCCAGCTCTTCATCAACTACAAGCTCAAGTCTGTGGCCACCTTCCCTGGCGCATGCTCACC
TACAAGGCCCTCAACACATTTCATCGACGACCTGTTGCGCTTTGTTCATCAAGATGCCCGTTATGTACCGGATCGGC
TGCTTGCGGGACGATGTGGTTTTTCTTCATCTACCTCTACCAACGGTGGATCTACCGCGTCGACCCACCCGAGTC
AACGAGTTTGGCATGAGTGGAGAAGACCCACAGCTGCCGCCCCCGTGGCCGAGGTTCCCACAGCAGCAGGGGCC
CTCACGCCCACACCTGCACCCACCACGACCACCGCCACCGAGGAGGCCTCCACGTCCCTGCCCACCAAGCCC
ACCCAGGGGGCCAGCTCTGCCAGCGAGCCCCAGGAAGCCCCCTCCAAAGCCAGCAGAGGACAAGAAAAAGGATTAG

TCGAGACTGGTCTCTACCTGCTCCGGCTCCTGGCGACCACTACCCCTGCGTCCCGGCCCCCTCGCCTCCCCCTCCC
TGTCGCCCTTTCCCTGGACAGATCAGGCCGGGGCGGTGGGAGGCCCGCCTCAGGTCAGGGCCCAGCGTGTGACGT
AGGGGGCCGGGCGAGGCCAGGGTTTTGTTTGTGGAGGCGCTGTCTGTCCCTCTGTCCCTCTGTGTTTCCAGCCATCT
CGCCCTGCCAGCCAGCACCCTGGGAATCATGGTGAAGCTGATGCAGCGTTGCCGAGGGGGTGGGTTGGGCGGG
GGTGGGGCCGGGCCCCCTACGGGATGCCACGGCGGTTTCATCATCTTGTCCCTCGTCCCCCTACCACACTCCCC
CTCCTAGACCGCCGCCCTTTAACACAGTCTGGATTTAATAAATTCATATGGGTGTTTAACTTAACTCAAAAAA
AAAAAAAAAA

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FIGURE 5509

MAAAQEADGARS AVVAAGGGSSGQVTSNGS IGRDPPAETQPQNPPAQ PAPNAWQVIKGVLFRIFI IWAISSWFRR
GPAPQDQAGPGGAPRVASRNLF PKDTLMNLHVYI SEHEHFTDFNATSALFWEQHDLVYGDWTSGENSDGCYEHFA
ELDIPQSVQQNGSIYIHVYFTKSGFHPDPRQKALYRRLATVHMSRMINKYKRRRFQKTKNLLTGETEADPEMIKR
AEDYGPVEVISHWHPNITINIVDDHTPWVKGSVPPPLDQYVKFDAVSGDYYP IYFNDYWNLQKDYY PINESLAS
LPLRVSF CPLSLWRWQLYAAQSTKSPWNFLGDELYEQSDEEQDSVKVALLETNPYLLALTIIVSIVHSVFEFLAF
KNDIQFWNSRQSLEGLSVRSVFFGVFQSFVLLYILDNETNFVVQVSFVFIGVLIDLWKITKVM DVRLDREHRVAG
IFPRLSFKDKSTYIESSTKVYDDMAFRYLSWILFPLLGCVAVYSLLYLEHKGWYSWVLSMLYGFLLTFGFITMTP
QLFINYKLKSAHLFPWRMLTYKALNTFIDDLFAFVIKMPVMYRIGCLRDDVVFFIYLYQRWIYRVDPTRVNEFGM
SGEDPTAAAPVAEVP TAAGALTPTPAPT TTTTATREEASTSLPTKPTQGASSASEPQEAPPKPAEDKKKD

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FIGURE 5510

GATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCCGAGCTGCGCCAGCAGACCGAGTGGCAGA
GCGGCCAGCGCTGGGAACTGGCACTGGGTTCGCTTTTGGGATTACCTGCGCGCCAAGCTGGAGGAGCAGGCCCAGC
AGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAGAGCTGGTTCGAGCCCCTGGTGGGAAGACATGCAGC
GCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTGGGCACCAGCGCCGCCCCCTGTGCCCAGCGACAATC
ACTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACCCCGTGCTCCTGCCTCCGCGCAGCCTGCAGCGGG
AGACCCCTGTCCCCGCCCCAGCCGTCCTCCTGGGGTGGACCCTAGTTTAATAAAGATTCACCAAGTTTCACGC

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FIGURE 5511

CGCAGCGGAGGTGAAGGACGTCCTTCCCCAGGAGCCGACTGGCCAATCACAGGCAGGAAGATGAAGGTTCTGTGG
GCTGCGTTGCTGGTCACATTCTGGCAGGATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCC
GAGCTGCGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAAGTGGCACTGGGTGCTTTTGGGATTACCTG
CGCTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGGAGCTGCTCAGCTCCCAGGTCACCCAGGAAGTGAAGGCG
CTGATGGACGAGACCATGAAGGAGTTGAAGGCCTACAAATCGGAAGTGGAGGAACAAGTACCCCGGTGGCGGAG
GAGACGCGGGCACGGCTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGCTGGGCGCGGACATGGAGGACGTGTGC
GGCCGCTGGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGCGCCTC
GCCTCCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTAC
CAGGCCGGGGCCCCGCGAGGGCGCCGAGCGCGGCTCAGCGCCATCCGCGAGCGCCTGGGGCCCCCTGGTGGAAACAG
GGCCGCGTGCGGGGCCGCACTGTGGGCTCCCTGGCCGGCCAGCCGCTACAGGAGCGGGCCCCAGGCCTGGGGCGAG
CGGCTGCGCGCGCGGATGGAGGAGATGGGCAGCCGACCCGCGACCGCCTGGACGAGGTGAAGGAGCAGGTGGCG
GAGGTGCGCGCCAAGCTGGAGGAGCAGGCCAGCAGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAG
AGCTGGTTTCGAGCCCCTGGTGAAGACATGCAGCGCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTG
GGCACCAGCGCCGCCCTGTGCCAGCGACAATCACTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACC
CCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGGAGACCCTGTCCCCGCCCCAGCCGTCTCCTGGGGTGGACCC
TAGTTTAATAAAGATTCACCAAGTTTCACGC

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FIGURE 5512

MKVLWAALLVTFLAGCQAKVEQAVETEPEPELQQTEWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQVT
QELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMEDVCGRVQYRGEVQAMLGQSTEE
LRVRLASHLRKLRKRLLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLAGQPLQERA
QAWGERLRARMEEMGSRTDRDLDEVKEQVAEVRKLEEQAQQIRLQAEAFQARLKSWFEPLVEDMQRQWAGLVEK
VQAAVGTSAAPVPSDNH

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FIGURE 5513

GGCGGCGGCAGCGGGTTTCGGTTGCGCGTGGCGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCGCCG
CCAGCGACCAATGGGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCCTGCGCCGGCCCTC
GTGGGGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGGC
ACCACTACGAGTCGAAGTTCGGAACGGACCCCCGGGGCTGCAACCGCCAGCGCCTCAGGGGCCGCCGAGGATGGG
GCCTGCGGCTGCCTGCCCAACCCGGGCACATTCGAGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTACG
ATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGTTGAGTAACCATTTTCAGGTCAACCACACAGTAGCCCTCAGC
ACAATCGGGAGTCCAACCTACCACTTCGGGGTCACATATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCAATCACCAGCTGGGCCCCGGTCTC
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAACTGGCAGGTGGACGGGGAGTATCGGGGCTCT
GACTTCACAGCAGCCGTCACCCTGGGGAACCCAGACGTCTCTGTTGGTTTCAGGAATCCTCGTAGCCCACTACCTC
CAGAGCATCACGCCTTGCTGGCCCTGGGTGGAGAGCTGGTCTACCACCGCGCGCCTGGAGAGGAGGGCACTGTC
ATGTCTCTAGCTGGGAAATACACATTGAACAACCTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAAGGATGCAGGACACC
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCAAGGCCAACCTCCTCTTCAAAGGCTCTGTGGATAGCAACTGG
ATCGTGGGTGCCACGCTGGAGAAGAAGCTCCCACCCCTGCCCTGACACTGGCCCTTGGGGCCTTCCCTGAATCAC
CGCAAGAACAAGTTTCAGTGTGGCTTTGGCCTCACCATCGGCTTGAGCCCTCCTGGCCCCCGCCTTCCACGCCCTT
CCGATTCCACCTCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCTCCCTTCCCTCCCCCTT
GGGGGTCGGGGGGGGACATTGGAAGGAGGGACCCCGCCACCCACAGCAGCTGAGGAGGGGATTCTGGAACCTGAAT
GGCGCTTCGGGATTCTGAGTAGCAGGGGCAGCATGCCAGTGGGCCTGGGGTCCCGGGAGGGATTCCGGAATTGA
GGGGCACGCAGGATTCTGAGCACCAGGGGCAGAGGCGGCCAGACAACCTCAGGGAGGAGTGTCTTGGCGTCCCCA
TCCTCCAAAGGGCCTGGGCCCCGCCCGAGGGGGCAGCGAGAGGAGCTTCCCCATCCCCGGTCAGTCCACCCTGCC
CCGTCCACTTTCCCATCTCCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACCGGGACATTTTACAGAAAAA
AAACAAAAAACACAAAAAATATACGTGGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5514

MGNVLAASSPPAGPPPPPAPALVGLPPPPPSPPGFTLPPLGGSLGAGTSTSRSSERTPGAATASASGAAEDGACG
CLPNPGTFEECHRKCKELFPIQMEGVKLTVNKGLSNHFQVNHTVALSTIGESNYHFGVTYVGTKQLSPTEAFPVL
VGDMDNSGSLNAQVIHQLGPGRLSKMAIQTQSKFVNWQVDGEYRGSDFTAAVTLGNPDVLVGSGILVAHYLQSI
TPCLALGGELVYHRRPGEEGTVMISLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS
FGYQLDLPKANLLFKGSVDSNWIVGATLEKKLPPLPLTLALGAFLNHRKNKFQCGFGLTIG

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FIGURE 5515

GAGCAGAACAGGGAGGCTAGAGCGCAGCGGGAACCGGCCCCGAGCCGGAGCCGGAGCCCCACAGGCACCTACTAA
ACCGCCCAGCCGATCGGCCCCCACAGAGTGGCCCCGCGGGCCTCCGGCCGGGGCCAGTCCCCCTCCCGGGCCCTCCA
TGGCCCCGGGCGCTGCCCTCCTGCCGTGAGATCGCCGCCGACGCCGCTGCTGTGGCCGCTGCTGCTGCTGCTGC
TCCTGGAAACCGGAGCCCAGGATGTGCGAGTTCAAGTGCTACCCGAGGTGCGAGGCCAGCTCGGGGGCACCGTGG
AGCTGCCGTGCCACCTGCTGCCACCTGTTCTGGACTGTACATCTCCCTGGTGACCTGGCAGCGCCCAGATGCAC
CTGCGAACCACCAGAATGTGGCCGCCCTTCCACCCTAAGATGGGTCCCAGCTTCCCCAGCCCCGAAGCCTGGCAGCG
AGCGGCTGTCTTTCGTCTCTGCCAAGCAGAGCACTGGGCAAGACACAGAGGCAGAGCTCCAGGACGCCACGCTGG
CCCTCCACGGGCTCACGGTGGAGGACGAGGGCAACTACACTTGCGAGTTTGCCACCTTCCCCAAGGGGTCCGTCC
GAGGGATGACCTGGCTCAGAGTCATAGCCAAGCCCAAGAACCAAGCTGAGGCCCAGAAGGTACGTTACGCCAGG
ACCCTACGACAGTGGCCCTCTGCATCTCCAAAGAGGGCCGCCACCTGCCCGGATCTCCTGGCTCTCATCCCTGG
ACTGGGAAGCCAAAGAGACTCAGGTGTACGGGACCCTGGCCGGAAGTGTCACTGTACCAGCCGCTTCACCTTGG
TGCCCTCGGGCCGAGCAGATGGTGTACGGTCACCTGCAAAGTGGAGCATGAGAGCTTCGAGGAACCAGCCCTGA
TACCTGTGACCCTCTCTGTACGCTACCCTCCTGAAGTGTCCATCTCCGGCTATGATGACAACCTGGTACCTCGGCC
GTACTGATGCCACCCTGAGCTGTGACGTCCGCAGCAACCCAGAGCCCACGGGCTATGACTGGAGCACGACCTCAG
GCACCTTCCCCGACCTCCGCAGTGGCCCAGGGCTCCCAGCTGGTTCATCCACGCAGTGGACAGTCTGTTCAATACCA
CCTTCGTCTGCACAGTCACCAATGCCGTGGGCATGGGCCGCGCTGAGCAGGTCATCTTTGTCCGAGAAACCCCA
GGGCCTCGCCCCGAGATGTGGGCCCGCTGGTGTGGGGGGCCGTGGGGGGGACACTGCTGGTGCTGCTGCTTCTGG
CTGGGGGGTTCCTGGCCTTCATCCTGCTGAGGGTGAGGAGGAGGAGGAAGAGCCCTGGAGGAGCAGGAGGAGGAG
CCAGTGGCGACGGGGGATTCTACGATCCGAAAGCTCAGGTGTTGGGAAATGGGGACCCCGTCTTCTGGACACCAG
TAGTCCCTGGTCCCATGGAACCAGATGGCAAGGATGAGGAGGAGGAGGAGGAGGAAGAGAAGGCAGAGAAAGGCC
TCATGTTGCCTCCACCCCCAGCACTCGAGGATGACATGGAGTCCCAGCTGGACGGCTCCCTCATCTCACGGCGGG
CAGTTTATGTGTGAACCTGGACACAGACAGAGACAGAGCCAGGCCCCGGCCCTCCCGCCCCGACCTGACCACGCCG
GCCTAGGGTTCCAGACTGGTTGGACTTGTTTCGTCTGGACGACACTGGAGTGGAACACTGCCTCCCACCTTTCTTG
GACTTGAGGGAGGTGGAACAGCACACTGGACTTCTCCCGTCTCTAGGGCTGCATGGGGAGCCCGGGGAGCTGAG
TAGTGGGGATCCAGAGAGGACCCCCGCCCCCAGAGACTTGGTTTTGGCTCCAGCCTTCCCCTGGCCCCGTGACAC
TCAGGAGTTAATAAATGCCTTGGAGGAAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5516

MARAAALLPSRSPPTPLLWPLLLLLLLETGAQDVRVQVLPEVRGQLGGTVELPCHLLPPVPGLYISLVTWQRPDA
PANHQNVAAFHHPKMGPSFPSPKPGSERLSFVSAKQSTGQDTEAELQDATLALHGLTVEDEGNYTCEFATFPKGSV
RGMTWLRVIAKPKNQAEAKVTFSQDPTTVALCISKEGRPPARISWLSSLDWEAKETQVSGTLAGTVTVTSRFTL
VPSGRADGVTVTCKVEHESFEEPALIPVTLSVRYPPPEVSISGYDDNWYLGRTDATLSCDVRNPEPTGYDWSSTS
GTFPTSAVAQGSQVLVIHAVDSLNTTFVCTVTNAVGMGRAEQVIFVRETFRASPRDVGPLVWGAVGGTLLVLLLL
AGGSLAFILLRVRRRRKSPGGAGGGASGDGGFYDPKAQVLGNBDPVFWTPVVPGPMEPDGKDEEEEEEEKAKEG
LMLPPPPALEDDMESQLDGSLSRRVYV

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FIGURE 5517

AGTCTCCGCCGCCCGTGAACATGGAGCCCCCGGACGCACCGGCCAGGCGCGCGGGGCCCGCGGCTGCTGTT
GCTCGCAGTCCTGCTGGCGGCGCACCCAGATGCCCAGGCGGAGGTGCGCTTGTCTGTACCCCCGCTGGTGGAGGT
GATGCGAGGAAAGTCTGTCAATTCTGGACTGCACCCCTACGGGAACCCACGACCATTATATGCTGGAATGGTTCCCT
TACCGACCGCTCGGGAGCTCGCCCCCGCTAGCCTCGGCTGAGATGCAGGGCTCTGAGCTCCAGGTACAATGCA
CGACACCCGGGGCCGAGTCCCCCATAACCAGCTGGACTCCCAGGGGCGCCTGGTGTGCTGAGGCCAGGTGGG
CGACGAGCGAGACTACGTGTGCGTGGTGAGGGCAGGGGCGGCAGGCACTGCTGAGGCCACTGCGCGGCTCAACGT
GTTTGCAAAGCCAGAGGCCACTGAGGTCTCCCCCAACAAAGGGACACTGTCTGTGATGGAGGACTCTGCCCAGGA
GATCGCCACCTGCAACAGCCGGAACGGGAACCCGGCCCCCAAGATCACGTGGTATCGCAACGGGCAGCGCCTGGA
GGTGCCCGTAGAGATGAACCCAGAGGGCTACATGACCAGCCGACGGTCCGGGAGGCCTCGGGCCTGCTCTCCCT
CACCAGCACCTCTACCTGCGGCTCCGCAAGGATGACCGAGACGCCAGCTTCCACTGCGCCGCCACTACAGCCT
GCCCAGGGGCCGCCACGGCCGCTGGACAGCCCCACCTTCCACCTCACCTGCATATCCACGGAGCACGTGCA
GTTCTGGGTGGGCAGCCCGTCCACCCAGCAGGCTGGGTACGCGAGGGTGACACTGTCCAGCTGCTCTGCCGGGG
GGACGGCAGCCCCAGCCCGAGTATACGCTTTTCCGCTTCAGGATGAGCAGGAGGAAGTGCTGAATGTGAATCT
CGAGGGGAACCTTGACCCTGGAGGGAGTGACCCGGGGCCAGAGCGGGACCTATGGCTGCAGAGTGAGGATTACGA
CGCGGCAGATGACGTGCAGCTCTCCAAGACGCTGGAGCTGCGCGTGGCCTATCTGGACCCCTGGAGCTCAGCGA
GGGGAAGGTGCTTTCTTACCTCTAAACAGCAGTGCACTCGTGAAGTGTCTCGTGCACGGCCTGCCACCCCTGC
CCTACGCTGGACCAAGGACTCCACTCCCTGGGCGATGGCCCCATGCTGTGCTCAGTTCTATACCTTCGATTTC
CAATGGCACCTACGTATGTGAGGCCTCCCTGCCACAGTCCCGGTCCCTCAGCCGCACCCAGAATTTCAGCTGCT
GGTCCAAGGCTCGCCAGAGCTAAAGACAGCGGAAATAGAGCCCAAGGCAGATGGCAGCTGGAGGGAAGGAGACGA
AGTCACACTCATCTGCTCTGCCCCGCGGCCATCCAGACCCCAAATCAGCTGGAGCCAATTGGGGGGCAGCCCCGC
AGAGCCAATCCCCGACGGCAGGGTTGGGTGAGCAGCTCTCTGACCCTGAAAGTGACCAGCGCCCTGAGCCGCGA
TGGCATCTCCTGTGAAGCCTCCAACCCCCACGGGAACAAGCGCCATGTCTTCCACTTCGGCGCCGTGAGCCCCCA
GACCTCCCAGGCTGGAGTGGCCGTATGGCCGTGGCCGTACGCGTGGGCCTCCTGCTCCTCGTCGTTGCTGTCTT
CTACTGCGTGAGACGCAAAGGGGGCCCCCTGCTGCCGCCAGCGCGGGAGAAGGGGGCTCCGCCGCCAGGGGAGCC
AGGGCTGAGCCACTCGGGGTGCGAGCAACCAGAGCAGACCGGCCCTTCTCATGGGAGGTGCCTCCGGAGGAGCCAG
GGGTGGCAGCGGGGGCTTCGGAGACGAGTGCTTGAGCCCAAGAACCTCCTAGAGGCTGTCCCTGGACCTGGAGCTGC
AGGCATCAGAGAACCAGCCCTGCTCACGCCATGCCCGCCCCCGCCTTCCCTCTTCCCTCTTCCCTCTCCCTGCC
AGCCCTCCCTTCCCTTCTCTGCCGCAAGGCAGGGACCCACAGTGGCTGCCTGCCTCCGGGAGGGAAGGAGAGGG
AGGGTGGGTGGGTGGGAGGGGGCCTTCCCTCCAGGGAATGTGACTCTCCAGGCCCCAGAATAGCTCCTGGACCCA
AGCCCAAGGCCCAGCCTGGGACAAGGCTCCGAGGGTGGCTGGCCGGAGCTATTTTTACCTCCCGCCTCCCTGCT
TGGTCCCCCACCTGACGTCTTGCTGCAGAGTCTGACACTGGATTCCCCCCCCCTACCCCGCCCCCTGGTCCCCT
CCTGCCCCCGCCCTACCTCCGCCCCACCCCATCATCTGTGGACACTGGAGTCTGGAATAAATGCTGTTTGTACACA
TC

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FIGURE 5518

MEPPDAPAQARGAPRLLLLAVLLAAHPDAQAEVRLSVPPPLVEVMRGKSVILDCTPTGTHDHYMLEWFLTD RSGAR
PRLASAEMQGSELQVTMHDTRGRSPPYQLDSQGRVLAEAQVGDERDYVCVVRAGAAGTAEATARLNVFAKPEAT
EVSPNKGTL SVMEDSAQEIATCNSRNGNPAPKITWYRNGQRLEVPVEMNPEGYMTSRTVREASGLLSLTSTLYLR
LRKDDRDASFHCAAHYSLPEGRHGRLDSPTFHLTLHYPTHEHVQFWVGSPSTPAGWVREGDTVQLLCRGGDGSPE
YTLFRLQDEQEEVLNVNLEGNLTLEGVTRGQSGTYGCRVEDYDAADDVQLSKTLELRVAYLDPLELSEGKVLSP
LNSSAVVNCSVHGLPTPALRWTKDSTPLGDGPMLSLSSITFDSNGTYVCEASLPTVPVLSRTQNFTLLVQGSPEL
KTAEIEPKADGSWREGDEVTLIC SARGHPDKLSWSQLGGSPAEP IPGRQGWSSSLTLKVTSALS RDGISCEAS
NPHGNKRHVHFGAVSPQTSQAGVAVMAVAVSVGLLLL VAVFYCVRRKGGPCCRQRREKGAPPPGEPGLSHSGS
EQPEQTGLLMGGASGGARGGSGGF GDEC

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FIGURE 5519

TCCCAGCCGCACCGGTCTTTCCCGGCACACGCGAGGCTCCCATGGCTCTGGCGGTGGCCCCGTGGGGGCGACAGT
GGGAAGAGGCCCCGCGCCCTGGGCCGGGCAGTCAGGATGCTGCAGCGCCTAGAAGAGCAATGCGTCGACCCCCGGC
TGTCCTGTAGTCCCCCTTCGCTGCGGGACCTGCTGCCCCGCACAGCGCAGCTGCTTCGAGAGGTGGCCCATTCTC
GGCGGGCGGCCGGCGGAGGCGGCCCCGGGGGTCCCGGCGGCTCTGGGGACTTTCTACTCATCTACCTGGCCAATC
TGGAGGCCAAGAGCAGGCAGGTGGCCGCGCTGCTGCCTCCCCGGGGCCGAAGGAGTGCCAACGACGAGCTCTTCC
GGGCGGGCTCCAGACTCAGGCGACAGCTGGCCAAGCTGGCCATCATCTTCAGCCACATGCACGCAGAGCTGCACG
CACTCTTCCCCGGGGGAAAGTACTGTGGACACATGTACCAGCTCACCAAGGCCCCCGCCACACCTTCTGGAGGG
AAAGTTGCGGAGCCCCGGTGTGTGCTGCCCTGGGCTGAGTTTGAGTCCCTCCTGGGCACCTGCCACCCTGTGGAAC
CAGGCTGCACAGCCCTGGCCTTGCGCACCACCATTGACCTCACCTGCAGCGGGCACGTGTCCATCTTCGAGTTTCG
ACGTCTTACCAGGCTCTTTTCAGCCATGGCCAACACTCCTCAAGAACTGGCAGCTCCTGGCAGTCACCCACCCAG
GCTACATGGCCTTCCTCACCTATGATGAGGTCCAAGAGCGTCTGCAGGCCTGCAGAGACAAGCCAGGCAGTTACA
TCTTCCGGCCCAGCTGTACTCGCCTGGGGCAGTGGGCCATCGGCTATGTGAGCTCAGATGGCAGCATCCTGCAGA
CCATCCCTGCCAACAACCCCTGTCCCAGGTGCTCCTGGAGGGACAGAAGGACGGCTTCTACCTCTACCCAGATG
GAAAGACCCACAACCCAGACCTGACTGAGCTCGGCCAGGCAGAACCCACGAGCGCATCCACGTGTCAGAGGAGC
AGCTGCAGCTCTACTGGGCCATGGACTCCACATTTGAGCTCTGCAAGATCTGTGCTGAGAGCAACAAGGATGTGA
AGATTGAGCCGTGCGGGCACCTGCTCTGCAGCTGCTGCCTGGCTGCCTGGCAGCACTCGGACAGCCAGACCTGCC
CCTTCTGCCGCTGCGAGATCAAGGGCTGGGAGGCCGTGAGTATCTACAGTTCTACGGTCAGGCTACTGCTGAGG
ACTCAGGGAACAGCAGTGACCAGGAAGGCAGGGAGTTGGAGCTGGGGCAGGTGCCCCCTTTCGGCTCCTCCATTGC
CCCCACGGCCAGATCTGCCCCCAGGAAGCCCAGAAATGCCAGCCGAAAGTGAGACTCCTAAAGGGGAACTCCC
CTCCAGCTGCGCTGGGACCCCAGGACCCTGCCCCGGCCTTGAAGGCCAGGGCACCCAGATGTGCTGCTCAAGGGAG
CCCCAAGGGCTGGAAGGGGGTTGTGAAACCGAAATAAACTGCCAAGCCTGGTCTGTCAAAAAAAAAAAAAAAAAA

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FIGURE 5520

MALAVAPWGRQWEEARALGRAVRMLQRLEEQCVDPRLSVSPPSLRDLLPRTAQLLREVAHSRRAAGGGPGGPGG
SGDFLLIYLANLEAKSRQVAALLPPRGRRSANDELFRAGSRLRRQLAKLAIIFSHMHAELHALFPGGKYCGHMYQ
LTKAPAHTFWRESCGARCVLPWAEFESLLGTCHPVEPGCTALALRTTIDLTCSGHVSIFEFDVFTRLFQWPPTLL
KNWQLLAVTHPGYMAFLTYDEVQERLQACRDKPGSYIFRPSCTRLGQWAIGYVSSDGSILQTIPANKPLSQVLLLE
GQKDGFFLYLPDGKTHNPDLTTELGQAEPQQRIVHSEEQLQLYWAMDSTFELCKICAESNKDVKIEPCGHLLCSCCL
AAWQHSDSQTCPCRCCEIKGWEAVSIYQFYGQATAEDSGNSSDQEGRELELGQVPLSAPPLPPRPDLPPRKPRNA
QPKVRLKGNSPPAALGPQDPAPA

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FIGURE 5521

ACCATTGGAGCTGAGGCGGCTGCTGCTCTCGGGGGAGGTGTTGGCGCTCCGGTCAGGGGAGGGGTCTGGCTGGGA
GGTGAAGCAGGCCGGGTGGCCTTCCCCCTCAGGATGTCGATGACCCTGCGGCTGCGCGCCACCATGAGCGGCGT
GTCGTTGTGGCAGTTCTTGAGGCTGCTGTCAGCGCCGCTGCGGACCAGCGTGCGCACCAGCGGGAGGAGCCCGCG
GCCGGACGCTGAGTGCAGGGCGGAGCTGCCGGAGTACATTTGCGCGTTACGTTGGCGCCGTGCTGCAGCAGCAG
CTGCACCATGCTAAGGCTGTTGTTTTCCACGGCGTGGATGAGCGGGGAGCGGCCG

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FIGURE 5522

GCCCCGTATGCCCCGCGGGCGCATGTGACGAGGGGCGCGTGGACTGCGCACCCGGCCCAAGGCCACTGGACTCCC
GGGCGCCGCGCTGCCGCTCCGCAAGCGCCGCTGCGCCGCCCTTCCCCGGAGCCCGCGCTCCCCGCGGGCGCTG
CGGGCCTTGTCTGCTCCCCCTGGACCTCTGCGCGGCGGCTGCGACCTGCCGGCGGTCCCCGGGCCCCCCCCACGGCC
TGGCCCGCCGGAGGCGCTTTACTACCCCGGAGCCTTACTGCCTTTGTACCCCACTCGGGCCATGGGCTCCCCGTT
TCCTCTGGTGAACCTGCCTACACCCCTATACCCCATGATGTGCCCCATGGAACACCCCTTTCTGCTGACATCGC
CATGGCCACCCGTGCAGATGAGGACGGAGACACGCCTCTCCATATTGCTGTGGTGCAGGGTAACCTGCCAGCTGT
GCACCGGCTGGTCAACCTCTTCCAGCAGGGGGGCGGGAGCTCGACATCTACAACAACCTACGGCAGACACCGCT
CCACCTGGCTGTGATCACCACATTACCGTCTGTGGTCCGGCTCCTGGTGACAGCTGGTGCCAGCCCCATGGCGCT
GGACCGCCATGGCCAGACGGCCGCTCACCTGGCGTGCGAGCACCGCAGCCGACCTGCCTGCGAGCCCTGCTGGA
CAGCGCAGCTCCGGGCACGTTGGACCTGGAGGCCCGCAATTATGACGGGCTCACCGCCCTGCACGTGGCAGTGAA
CACCGAGTGCCAAGAAACCGTGCAGCTCTTGCTAGAGCGCGGTGCCGACATCGACGCAGTGGACATTAAGAGCGG
CCGCTCCCCGCTCATCCACGCCGTGGAACAACAGCCTTAGCATGGTGCAGCTGCTGCTGCAGCACGGCGCCAA
CGTGAAACGCGCAAATGTACTCCGGCAGCTCCGCCCTGCACTCAGCGTCCGGCCGCGCGCTCCTCCCGCTGGTGCG
CACGCTGGTCCGCAGCGGCGCTGACAGCAGCCTCAAGAACTGCCACAACGACACGCCGCTCATGGTGGCGCGCAG
CCGCAGGGTCATCGACATCCTGAGGGGGAAGGCCACCCGGCCTGCTTCCACCTCCCAGCCAGACCCCTCCCCCTGA
CCGGAGCGCCAACACCTCCCCGAGAGCAGCAGCCGCTCAGCTCCAATGGTCTTCTCTCCGCATCACCATCCTC
CTCACCTCCCAGTCTCCCCCAGGGACCCCCCTGGATTCCCCATGGCTCCTCCCAATTTCTTCTTCTTCCCC
ATCTCCACCCGCCTTCTGCCCCTTTGCTGGGGTCTCCGAGGCCCTGGCCGGCGGTGCCCCCTCCCCAGCTCC
AGGAGGCAGCTGAGGGGGATGGGGGGGCAGATCTTGGACTCATGAGGAGGGGCCCCCTGCCCTGTGGGGTCAAC
CCTTCTGGAACTGTGAAGATCTCACTCTGCCCCCCCCCATCTTCGGGACCAGGATTTGCACAGAAGCACATGCA
CCTACCCATACACCCCTCTTCTGAGCACAGATGTTCCCCATCTCGCTCCCTCCCAGGACTCTGACCCAGCAT
TCTCAGGCACCAGTCCCTGTCCGGAATGCCACCCACATCTTCCATTTCCATGTCCCCTCCCAGAGCTGGTGGACC
CAGGGAACAGCCACTCCCCTCCACTCTCTACCAGATAACTGAGGAGGGGAGAGGTGGGCCGTAACGGGCACGGAT
CACGATGTAAATTATTAAGCATTTTGGTTGGATTTCTTTTGTAAATAAACTATTTTTGTACCAT

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FIGURE 5523

CCGAGGGTCAGGCTGCAGAAGCCCAGAATCCCACCCAGTCCCCAAGTACAGAGGTCGCTGTCAAGATGGAGTTT
CCAACCCAGTAAATCCAAGGGCCAGACCGTGACCTCATAAAGCATGATCTCCTTCTGTCCAGACTGTGGCAAAAG
TATCCAAGCGGCATTCAAATTCTGCCCCCTACTGTGGAAATTCTTTGCCITGTAGAGGAGCATGTAGGGTCCCAGAC
CTTTGTCAATCCACATGTGTTCATCCTTCCAAGGCTCAAAGAGAGGGGCTGAACTCCAGTTTTGAAACCTCTCCTAA
GAAAGTGAAATGGTCCAGCACCGTCACCTCTCCCCGATTATCCCTCTTCTCAGATGGTGACAGTTCTGAGTCTGA
AGATACTCTGAGTTCTCTGTAGAGATCCAAAGGCTCCGGGAGCAGACCCCCAACCCCCAAAAGCAGCCCTCAGAA
GACCAGGAAGAGCCCTCAGGTGACCAGGGGTAGCCCTCAGAAGACCAGCTGTAGCCCTCAGAAGACCAGGCAGAG
CCCTCAGACGCTGAAGCGGAGCCGAGTGACCACCTCACTTGAAGCTTTGCCACAGGGACAGTGCTGACAGACAA
GAGTGGGCGACAGTGGAAGCTGAAGTCCTTCCAGACCAGGGACAACCAGGGCATTCTCTATGAAGCTGCACCCAC
CTCCACCCTCACCTGTGACTCAGGACCACAGAAGCAAAGTTCTCACTCAAACCTGGATGCCAAGGATGGGCGCTT
GTTCAATGAGCAGAACTTCTTCCAGCGGGCCGCCAAGCCTCTGCAAGTCAACAAGTGAAGAAGCTGTACTCGAC
CCCACTGCTGGCCATCCCTACCTGCATGGGTTTCGGTGTTCACCAGGACAAATACAGGTTCTTGGTGTACCCAG
CCTGGGGAGGAGCCTTCAGTCGGCCCTGGATGTCAGCCCAAAGCATGTGCTGTCAGAGAGGTCTGTGCTGCAGGT
GGCCTGCCGGCTGCTGGATGCCCTGGAGTTCCTCCATGAGAATGAGTATGTTTCATGGAAATGTGACAGCTGAAAA
TATCTTTGTGGATCCAGAGGACCAGAGTCAGGTGACTTTGGCAGGCTATGGCTTCGCCTTCCGCTATTGCCCAAG
TGGCAAACACGTGGCCTACGTGGAAGGCAGCAGGAGCCCTCACGAGGGGGACCTTGAGTTCATTAGCATGGACCT
GCACAAGGGATGCGGGCCCTCCCGCCGCAGCGACCTCCAGAGCCTGGGCTACTGCATGCTGAAGTGGCTCTACGG
GTTTCTGCCATGGACAAATTGCCTTCCCAACACTGAGGACATCATGAAGCAAAAACAGAAGTTTGTGATAAGCC
GGGGCCCTTCGTGGGACCCTGCGGTCACTGGATCAGGCCCTCAGAGACCCTGCAGAAGTACCTGAAGGTGGTGAT
GGCCCTCACGTATGAGGAGAAGCCGCCCTACGCCATGCTGAGGAACAACCTAGAAGCTTTGCTGCAGGATCTGCG
TGTGTCTCCATATGACCCCATTTGGCCTCCCGATGGTGCCCTTAGGTGGAATCCAGAACTTTCCATTTGCAGTGTGC
AACAGAAAAAAAATGAAGCAATGTGACTCAAGGCCTGCTGTTTAATCACAGATAAGCTTCTAGAACAAGCCCTG
GAATGTGCATTCTGCCACTGGTTTCAGGATACTCATCAGTCCTGATTAGCCTCCGGAGGGCCCCAGTTTCCCTC
CCGTGAATGTGAAGTTCCCCATCTTGGTGGCCTGCCCTTCAGCCAGTGTCTAGCAAAGCTGGATGGGGTTGGGC
CGGCCACAGGGGGGACCCCTCCTACCCTTGACTCCTCTGTGCTTTGGTAATAAATTGTTTACCAGAG

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FIGURE 5524

MISFCPDCGKSIQAAFKFCPYCGNSLPVEEHVGSQTFVNPVSSFQGSKRGLNSSFETSPKKVKWSSTVTSPRLS
LFSDGDSSESEDTLSSSERSKSGSRPPTPKSSPQKTRKSPQVTRGSPQKTSCSPQKTRQSPQTLKRSRVTTSL
ALPTGTVLTDKSGRQWKLKSFQTRDNQGILYEAAPTSTLTCDSGPQKQKFSLKLDKDGRLFNEQNFFQRAAKPL
QVNKWKLYSTPLLAIPTCMGFGVHQDKYRFLVLP SLGRSLQSALDVSPKHVLSERSVLQVACRLDDALEFLHEN
EYVHGNVTAENIFVDPEDQSQVTLAGYGFAFRYCPSGKHVAYVEGSRSPHEGDLEFISMDLHKGCGPSRRSDLQS
LGYCMLKWLYGFLPWINCLPNTEDIMKQKQKFVDKPGPFVGP CGHWIRPSETLQKYLKVVMALTYEEKPPYAMLR
NNLEALLQDLRVSPYDPIGLPMVP

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FIGURE 5525

ATTCATTCCCTGTCCCTCGGATCACAGTCTCTTCTCACTACAGTGTGCGCGCCTCTGCCTGCGTAGCCCCGGCCAT
GGCTCTGTAGCCTCGACCCCTTTGTGCCCCCGGCCCGTCTCCGCGCTCACCACGCCTGCGCTCTCCGCTCCCACC
TTCTTTCTTCAGCCGAGGCCGCCGCCGCTCTCCTTGCTGCGAGCCATGGAGTCTTCCACTTTGCGCTTGGTGCCT
GTCTTCGCCCCACCTGAGCATCCTCCAGAGCCTCGTGCCAGCTGCTGGTGCAGCCTCTCCTGTTGCCATCAGTGCC
CAGCACCTGTGCTACAGCCATGTCACTCCTGGCGACCCTGGGGCTGGAGCTGGACAGGGGCCCTGCTCCCAGCTAG
TGGGCTGGGATGGCTCGTAGACTATGGGAAACTCCCCCGGCCCTGCCCCCTGGCTCCCTATGAGGTCCCTTGG
GGGAGCCCTGGAGGGCGGGCTTCCAGTGGGGGGAGAGCCCCTGGCAGGTGATGGCTTCTCTGACTGGATGACTGA
GCGAGTTGATTTCACAGCTCTCCTCCCTCTGGAGCCTCCCCTACCCCCGGCACCCCTCCCCAACCTTCCCCAAC
CCCACCTGACCTGGAAGCTATGGCCTCCCTCCTCAAGAAGGAGCTGGAACAGATGGAAGACTTCTTCCCTAGATGC
CCCCCCCCCTCCACCACCCTCCCCGCCGCCACTACCACCACCACCCTACCACCAGCCCCCTCCCTCCCCCTGTC
CCTCCCCCTCCTTTGACCTCCCCAGCCCCCTGTCTTGATACTCTGGACTTGCTGGCCATCTACTGCCGCAACGA
GGCCGGGCAGGAGGAAGTGGGGATGCCGCTCTGCCCCGCCACAGCAGCCCCCTCCTCCTTCTCCACCTCAACC
TTCTCGCCTGGCCCCCTACCCACATCCTGCCACCACCCGAGGGGACCGCAAGCAAAAGAAGAGAGACCAGAACAA
GTCGGCGGCTCTGAGGTACCGCCAGCGGAAGCGGGCAGAGGGTGAGGCCCTGGAGGGCGAGTGCCAGGGGCTGGA
GGCACGGAATCGCGAGCTGAAGGAACGGGCAGAGTCCGTGGAGCGCGAGATCCAGTACGTCAAGGACCTGCTCAT
CGAGGTTTACAAGGCCCGGAGCCAGAGGACCCGTAGCTGCTTAGAAGGGCAGGGGTGTGGCTTCTGGGGGCTGGTC
TTCAGCTCTGGCGCCTTCATCCCCCTGCCTCTACCTTCATTCCAAACCCCTCTCGGCCGGGTGCAGTGGCTTATG
CTTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGTTTGAGGCCAGGAGGTCAATACCAGCCTGGGCA
ACATAGTAAGACCCTGTCTCTATTAAAAAAAAAAAAATCAACCCTTCTTCCCCACCAACCACCCAACTCCTCTCT
ACTCTTATCCTTTTATCCTCTGTCTCTGCTTATCACCTCTCTTGCGTATTTCTGGATCTCCTTCCCTCCTTTCTC
GTCCAAATCATGAAATGTTTGGCCTTAGTCAATGTCTATGCCCGTCACATAACAGCCGAGGCACCGAGGCCCA
GGGAAGCAGCTGGGAGCTTGGAAACCTGGTCTCTTGAATTTCAAACCTGGTTTCTTACAGGTGGTTGTCTGGGGT
GGGTGGAGTGGCGACAGGATAGAGCTGAAGGACTATGCAAATGAGGAAGTAAGTCAGGGCGGGCTTTGAGAAGGG
GACCCATATCCTACAGGCAAAAAGCAGGCTAGGTGACCTTGGGACACTACGCTAAGGGAGGGAGGCTAAAGGCGG
CCAGGTTTGCAGTGCGGGAAGATGAGCAGGCCAGTGGGAGGAGGGGCAGGGCAGGGCTGTAGTTGGTGACTGGGT
GTTCATTTTAGCTCTAAGAAAAAAAATCAGTGTTTCGTGAAGGTGTTGGAGAGGGGCTGTGTCTGGGTGAGGGAT
GGCGGGGTACTGATTTTTTTTGGGAGGTTATGAGCAAAAATAAAACGAAACATTTCTCTCTG

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FIGURE 5526

MSLLATLGLELDRAALLPASGLGWLVDYGKLPPAPAPLAPYEVLGGALEGGLPVGGEPLAGDGFSDWMTERVDFTA
LLPLEPPLPPGTLPPQSPTPPDLEAMASLLKKELEQMEDFFLDAPPLPPPSPPPLPPPLPPFAPSLPLSLPSFDL
PQPPVLDTLDLLAIYCRNEAGQEEVGMPPPLPPQPPPPSPPQPSRLAPYPHPATTRGDRKQKKRDQNKSAALRY
RQRKRAEGEAGEGECQGLEARNRELKERAESVEREIQYVKDLLIEVYKARSQRTSC

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FIGURE 5527

CGGACCGTGATTCCCCGCTCGCGACTCCCCACCCCCAGGGCTCCCTAAAGAGGGCCACGAGCTGCGAAAGGGCG
GGAAAGGCAGTTGGAGAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGCGGGCGGCTCGG
CTGAAGAAAGAAGGTGGGAGCGGAGAGCGCAGGCGTGAAACCCACCTTGTCCTCATCCACATCAGGACATCCCAGC
TGGAGTTCAACCTTCATCCCTTCTGTGGCAGTTAGGAGACTGAATCAAGGTCCAGAGAAGGTGGAGGAATCTGA
TACTGAGCGGAAGAAAATACACAGATGTGCTTCCTTCCCAGTCCTGACAAATGGCCTTTTCTTAAGTTCTTCATT
AATTCATATGAAGACAACACATTTGGTGACTAAATTTGGAATCAGAGGCTTTTAAAGCCTCCCAGCTGCTCTGAC
CCCAATATCAGGAACCTTGGCATCTCTGATCTAACAAGGGCACCCTAACAAGGACAAAGCCACCATCATTACCTT
TGATTCCGCACATGCCCAACGATGACTTCTGTCTGGGCTAACCATCAAGGCCATGGGTGCTGAGAGAGCCCCC
AGAGGCAGCCATGCACCTTGCACCTCCTCGTCCCTCGTCCCCATCCTCCTCAGCCTGGTGGCCTCCCAGGACTGGA
AGGCTGAACGCAGCCAAGACCCCTTCGAGAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTGA
CCTGGGGGCTCAATCGGACCCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCCG
CCAAGGTGCTCAGCGATGTGAGACACAAGGTCAACCTCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTCA
CCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCAGCTCTCACAGGATCCTCC
ACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTACCCAGTACGACAAGAACACGTGGACGGAGGTGC
ACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCCGAGAAGCTGGGCTACGCCTTGCGTCCCCAGGAAA
AGGGCCACTCGCCCGAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCA
GAAAGGCGATGAAGAAGTTTGAAAGGCACACGCTCTTGGAATATCTTCTCGGGGAGGGGAACCTGAGCCGGCCGG
CCGTGCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGCGCAX
CAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGATGCCGCGCGCGCTGCTGAG
CTCGCTGTCCGGGCTTGCTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCA
GATCGAGACCTCTCCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGCTGCTGACGGCGAGCGGACC
GGCGGTGAAGCGCATCACCTTCTCGCCGCGGCTGCCCCGCCACATGCAGGAGGCGCTGCGGAGGCTGCACTACGT
GCCGGCCACCAAGGTGTTCTTAAGCTTCCGCAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCAAA
CACCGATCGCCCGTGCAGCATGATTTTCTACCCGCGCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACGTG
GTCGGACGCGGCGGCAGCGTTGCGCGGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCGGC
ATTGCACGGGCCTGTCTGTCGCCAGCTCTGGGACGGCACCGGCTCGTCAAGCGTTGGGCGGAGGACCAGCACAG
CCAGGGTGGCTTTGTGGTACAGCCGCGGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGCCG
CATCTACTTTGCCGCGAGCACACCGCCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGCGC
CGCCATCAAGATCAACAGCCGGAAGGGGCTGCATCGGACACGGCCAGCCCCGAGGGGCACGCATCTGACATGGA
GGGGCAGGGCATGTGCATGGGGTGGCCAGCAGCCCCTCGCATGACCTGGCAAAGGAAGAAGGCAGCCACCCTCC
AGTCCAAGGCCAGTTATCTCTCAAAAACAGACCCACACGAGGACCTCGCATTAAGTATTTTCGGA

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FIGURE 5528

[illegible]

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FIGURE 5529

CTGTAGTCCTGGCACTTTGAGAGGACAAAGAGGGAGGATCGCTTGAGCCCAGGAGTTGAAGACCAGGGCAACAGA
AAATCTTCCCAAGGCTGCAGACACCGACGGATTTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAG
CCATGAGCGGGTTTAATTTTGAGGGCACTGGGGCCCCCTACAGGCGGGTTTACGTTTGGCACTGCAAAGACGGCAA
CAACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTTCCAAC
CAGCCACAAGTACCCCTTCCACCGGCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCA
CTTTTGGAAACAGCGACTCTTGCTTCGGGGGGAACTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGA
GCAACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCA
TATCGAGCACCGTCACTTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGG
CTCCAGCTACCACATCTGGAGGCTTCTCACTTCACTGGTGGAAAGCACGGCCCCAACCTCCGGTTTTCAACATTGGCT
CAGCAGGGAAATTCAGCCCAGCCCACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAG
CAGGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGGCCAGCCTCTTTGCGTCAA
TAGCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCCA
CTGCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTG
CCACCGCCACCGCCACCACCAGCAGCAGCAGCACCACCGGCTTTGCCCTTGAATTTAAAAACCACTGGCGCCAG
CCGGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGG

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FIGURE 5530

CCGGTCAGCTAAGGCCATGTTAATACGGGGCTGTCCCATCTCTCTGCGGGGCGCGACAGCTGGAAGAGCCGAACG
GATAAGAGAAGAGGAGAGCGCGGATGGCGTCGGGGCGCCCCGAGGAGCTATGCTGCCCATGGTCGAGGAGCCCTG
GCGGAGGCAGCGCGCCGTTGCCTCCACGACATCGCACTGGCCACAGGGCTGCCACTGCTGCTCGGCCCTCCTGCG
CCCCACCAGCACACAGCCACCCAGTCCCACACCCAGCCACCCCGGCCCTACCCTGGCCAGAGAGGACAACGAG
GAGGACGAGGATGAGCCCACAGAGACAGAGACCTCCGGGGAGCAGCTGGGCATTAGTGATAATGGAGGGCTCTTT
GTGATGGATGAGGACGCCACCCCTCCAGGACCTTCCCCCTTCTGTGAGTCAGACCCGAGAGTACAGATGATGGC
AGCCTGAGCGAGGAGACCCCCGCGGCCCGCCCCACCTGCTCAGTGCCCCCAGCCTCAGCCCTACCCACACAGCAG
TACGCCAAGTCCCTGCCTGTGTCTGTGCCCGTCTGGGGCTTCAAGGAGAAGAGGACAGAGGCGCGGTCTATCAGAT
GAGGAGAATGGGCGCCCTCTTCGCCCCGACCTGGACCGCATCGCGGCGAGCATGCGCGCGCTGGTGCTGCGAGAG
GCCGAGGACACCCAGGTCTTCGGGGACCTGCCACGGCCGCGGCTTAACACCAGCGACTTCCAGAAGCTGAAGCGG
AAATATTGAAGTCCAGGGAGGGAGCGCCCCGGGCCGCGTCCGCCCCGTCCACACTACGCCCCCGCCCCACTCCC
GGGGCCTGCTAATCTGAGGCCGATCCGGGACCGGCCCTCCTTGCCTCTCCATTCCCAAGATTGTCCCGCCTCTGC
CAATCCCCGCGCTCCTTCCAGCCCACGACCTGCCGCGCCGAGGAGCGGCATCTGTCCCGTTTCCCGATTGGGTCT
GTCGTCTCTCTCCGCTAGCGACAGATTCTTCTATTAAGGGATTGGCTCGCTGAGTTCTAAGCTCTAAATGGGT
CAACTCCTTTGTTTTCCGCCTAGCGACAAGGGATTGCTCGCACGGCATTGGCTCCATCCCCCTAGTCGCTGGACA
GCTCTTTTTTTGATTGGCTCAAATCCTGTAAAGGGCTTGACCAGTCTCTACATAGTCACCGTCCGCTTTTCCTGA
GTTCTCCCTCCCAATTGGCTCCAGCTTCCTGGGGGCGTGGCCAAGCCCTCCTCTTCCCAGAATTGGCCCCGGGGCC
TTCAATTTACGTTCTTTACACTACGGGGACTGGGGTCGTCTTTGCCACGTCCCGACAACCTTGTTCCTGACCCC
CTCAGGGATGGCCCCAAACTGTCCCTGCCTCTGGCACCCCCCTTTCATTGGTTCCATCCATCCCCACAACAGCCTG
CCAATCGAAGCCCGTCCCTGCATCCAGGATGGTACCAGTCCCGCCCCCTCGCCCCCACCTCCACAGGTGCCTTA
AAGGGCCCTCGTCCACCCAAGGTGGGGGGCAGGGGCCCTCACTCTCCGGCCCTGGTGTGGGGGAGAGAGTGAGGG
GTTGGGGGATCGGCAGTTGGGAGGGGCGCTCTGAGATTAAAGAGTTTTACCTCTGAGAT

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FIGURE 5531

GCCGGGTTGCAGGCGGGGCACCTCGGGCAGGACCTCCCTGGTCGGAAGTGGCCGTGAGCCCAAGCCGCGGTCCCG
GGCCGGCACCCAGGATGGGCGAGGTGGAGGCCCGGGCCGCTTGTGGCTCGAGAGCCCCCTGGGGGAGCGCCCCC
CATCTTCCTGCCCCTCGGACGGGCAAGCCCTGGTCCTGGGCAGGGGACCCCTGACCCAGGTTACGGACCGGAAGTG
CTCCAGAACTCAAGCCTGAAGCAGGCCACACTCCCCAGAAATGAGGGACCCAATCACACAAGGATGCAAATCCTG
ACTCCACCCCTCCAATCCTCAGTGGAGCTGGTCGCAGATCCTGAGACCCGGACAGTGGCAGTGAACAGCTGGGA
GTAAACCCCTCAACTACCGGGACCCAGGAGTTGAAGCCGGGGTTGGAGGGCTCTCTGGGGGTGGGGGACACACTG
TATTTGGTCAATGGCCTCCACCCACTGACCCTGCGCTGGGAAGAGACCCGCACACCAGAATCCCAGCCAGATACT
CCGCCTGGCACCCCTCTGGTGTCCCAAGATGAGAAGAGAGATGCTGAGCTGCCGAAGAAGCGTATGCGGAAGTCA
AACCCCGGCTGGGAGAACTTGGAGAAGTTGCTAGTGTTCACCGCAGCTGGGGTGAAACCCAGGGCAAGGTGGCT
GGCTTTGATCTGGACGGGACGCTCATCACCACACGCTCTGGGAAGGTCTTTCCCACTGGCCCCAGTGACTGGAGG
ATCTTGTACCCAGAGATTCCCCGTAAGCTCCGAGAGCTGGAAGCCGAGGGCTACAAGCTGGTGATCTTCACCAAC
CAGATGAGCATCGGGCGCGGGAAGCTGCCAGCCGAGGAGTTCAAGGCCAAGGTGGAGGCTGTGGTGGAGAAGCTG
GGGGTCCCCCTTCAGGTGCTGGTGGCCACGCACGCAGGCTTGTACCGGAAGCCGGTGACGGGCATGTGGGACCAT
CTGCAGGAGCAGGCCAACGACGGCACGCCCATATCCATCGGGGACAGCATCTTTGTGGGAGACGCAGCCGGACGC
CCGGCCAACTGGGCCCCGGGGCGGAAGAAGAAAGACTTCTCCTGCGCCGATCGCCTGTTTGCCCTCAACCTTGGC
CTGCCCTTCGCCACGCCTGAGGAGTTCTTTCTCAAGTGGCCAGCAGCCGGCTTCGAGCTCCCAGCCTTTGATCCG
AGGACTGTCTCCCGCTCAGGGCCTCTCTGCCTCCCCGAGTCCAGGGCCCTCCTGAGCGCCAGCCCGGAGGTGGTT
GTCGCAGTGGGATTCCCTGGGGCCGGGAAGTCCACCTTTCTCAAGAAGCACCTCGTGTGCGCCGGATATGTCCAC
GTGAACAGGGACACGCTAGGCTCCTGGCAGCGTGTGTGACCACGTGTGAGACAGCCCTGAAGCAAGGGAAACGG
GTCGCCATCGACAACACAAACCCAGACGCCGCGAGCCGCGCCAGGTACGTCCAGTGTGCCCAGCCGCGGGCGTC
CCCTGCCGCTGCTTCCTCTTACCGCCACTCTGGAGCAGGCGCGCCACAACAACCGGTTTCGAGAGATGACGGAC
TCCTCTCATATCCCCGTGTCAGACATGGTCATGTATGGCTACAGGAAGCAGTTCGAGGCCCAACGCTGGCTGAA
GGCTTCTCTGCCATCCTGGAGATCCCGTTCCGGCTATGGGTGGAGCCGAGGCTGGGGCGGCTGTACTGCCAGTTC
TCCGAGGGCTGAGCCCCGCCAGCTCCCCCTCCACAATAAACGCTGTTTCTCCTTG

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FIGURE 5532

GGCTGCGGCTGCAGTGGTGGTGGCGGGTACCGCACGGGGTATGGTCCCCGGGTCCGAGGGCCCGGCCCGCGCCGG
GAGCGTGGTGGCCGACGTGGTGTGTTGTGATTGAGGGTACGGCCAACCTGGGACCCTACTTCGAGGGGGCTCCGCAA
GCACTACCTGCTCCCGGCCATCGAGTATTTAATGGTGGTCTCTCTGCTGAGACGGACTTCGGGGGAGACTATGG
GGGGACCCAGTACAGCCTCGTGGTGTTCACACAGTGGACTGCGCTCCCGAGTCTTACGTACAATGTCACGCTCC
CACCAGCAGCGCCTATGAGTTTGTACCTGGCTCGATGGCATTAAAGTTCATGGGCGGGGGTGGTGAGAGCTGCAG
CCTCATCGCGGAAGGACTCAGCACAGCCTTGCAGCTGTTTGTGACTTCAAGAAGATGCGCGAGCAGATTGGCCA
GACGCACCGGGTCTGCCCTCTCATCTGCAACTCACCCCATACTTGTTCCTGCTGTTGAGAGCACCACGTACTC
TGGATGCACAACCTGAGAATCTTGTGCAGCAGATTGGGGAGCGGGGATCCACTTCTCCATTGTGTCTCCCCGGAA
GCTGCCTGCGCTTCGGCTTCTGTTTGAGAAGGCAGCCCCCGGCCCTTGCTGGAGCCGCTGCAGCCTCCGACAGA
TGTGAGCCAGGACCCGAGGCACATGGTGTCTGGTTCGGGGACTCGTGTCTGCTGTTGGGGGTGGCTCAGCCCTAGG
CCCCCTCCAGTCAAAGCAGCCAGTCCCCCTGCCTCCCGCCGACCCCTCAGGTGCCACTCTCTCAGCAGCCCCCA
GCAGCCTCTGCCCCCGTCCCCCGCAGTACCAGGTTCCCGGGAACCTGAGTGCAGCTCAGGTGGCCGCGCAGAA
TGCAGTGGAGGCTGCCAAGAACCAGAAGGCTGGGCTGGGCCCTCGCTTCTCGCCCATCACCCCTCTCCAACAAGC
TGCTCCCGGAGTGGGTCCCCCTTCAGCCAGGCCCCAGCTCCCCAACTACCCCAAGGACCCCTTGCGCCCCAA
GCCACCACCTGCTTCCAGCCAGTCTGGTCTCCACTGTGGCCCCCTGGCTCCGGCCTGGCTCCACGGCACAGCC
CGGGGCACCGTCCATGGCAGGCACTGTGGCCCCAGGAGGGGTGAGCGGCCCTTCCCCAGCCCAGCTGGGAGCCCC
AGCCCTCGGTGGGCAGCAGTCAGTCTCCAATAAGCTTCTGGCCTGGAGCGGGTCTTGAGTGGCAAGAGAAACC
CAAACCTGCCTCAGTGGATGCCAACACCAAGCTGACGCGGTCACTGCCCTGCCAGGTCTACGTGAATCATGGCGA
GAACCTGAAGACGGAGCAGTGGCCCCAGAAGCTGATCATGCAGCTCATCCCCAGCAGCTGCTGACCACCCTGGG
CCCTTTGTTCCGGAACCTCAAGGATGGTCCAGTTCCATTTACCAACAAGGACCTGGAGTCTCTCAAAGGCCTCTA
CCGCATCATGGGCAACGGCTTCGCGGGCTGCGTGCATTCCCCCACACGGCGCCCTGTGAGGTGCGCGTGCTCAT
GCTCCTGTACTCGTCCAAGAAGAAGATCTTCATGGGCCTCATCCCCTACGACCAGAGCGGCTTCGTCAACGGCAT
CCGGCAGGTCAACCAACCACAAGCAGGTCCAGCAGCAGAAGCTGGAGCAGCAGCAGCGAGGAATGGGGGGACA
GCAGGCACCCCCCAGGGCTGGGGCCATTCTGGAGGACCAAGCCAGGCCCTCACAGAATCTGCTCCAGCTCCGCC
CACCGCAGCCCCAGCCTCAGGGTACCGTAGGGGCTCTGGGGCCACGGGGCAGCCCCAGCCCCAAGGTACTGCCC
AGCCCCCGCCAGGTGCCCCCTCAAGGCCCTCCTGGAGCAGCTTCTGGCCCCACCCCTCCTGGACCCATCCTTCGGC
CCCAGAACCCTGGGGCCAACCCTCAGCTGCGAAGCCTCCTCCTCAACCCACCACCGCCGACAGTGGGGTGGCCC
CACCCAGGCCTCCCTCCACCACCTGCCCAGTCTGGCCCGCACAACTTCCCCCTCGGGCTCCACTGCCAGGTAA
GGGGACCCGGGGGAGGGCAGAGGTCTGGACTGAGTGTCCAGCAGCTCCTGGGCTAGAGCACCAAGACCAAGTGC
TCTTGGGAAGTAAAGACATAGGATCCAAGAATGAGGGTCCCCCAGCCGGGCTGCAGCCAGCGTCATGGAGGA
CGACATCCTCATGGATCTCATCTGAATCCCCAACCCCAATAAAGTTCCCTTTTAAACAAAAA

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FIGURE 5533

MVPGSEGPARGSVVADVVFVIEGTANLGPYFEGRLRKHYPALPAIEYFNGGPPAETDFGGDYGGTQYSLVVFNTVD
CAPESYVQCHAPTSSAYEFVTWLDGIKFMGGGGESCSLIAEGLSTALQLFDDFKKMREQIGQTHRVCCLLICNSPP
YLLPAVESTTYSGCTTENLVQQIGERGIHFSIVSPRKLPALRLLFEKAAPPALLEPLQPFPTDVSQDPRHMLVRG
LVLFPVGGGSALGPLQSKQPVPLPPAAPSGATLSAAPQQPLPPVPPQYQVPGNLSAAQVAAQNAVEAAKNQKAGLG
PRFSPITPLQQAAPGVGPPFSQAPAPQLPPGPPGAPKPPPASQPSLVSTVAPGSGLAPTAQPGAPSMAGTVAPGG
VSGPSPAQLGAPALGGQQSVSNKLLAWSGVLEWQEKPKPASVDANTKLTRSLPCQVYVNHGENLKTEQWPQKLIM
QLIPQQLLTTLGPLFRNSRMVQFHFTNKDLESLKGLYRIMGNGFAGCVHFPHTAPCEVRVLMMLYSSKKKIFMGL
IPYDQSGFVNGIRQVITNHNKQVQQQKLEQQQRGMGGQQAPPRAGAHSGGPSQALTESAPAPPTAAPASGYRRGLW
GHGAAPAPRYCPAPARCPSRPSWSSFWPTPSWTHPSAEPFWGQPSAAKPPPQPTTAADWGAPTPGLPPPPAQSWP
AQLPPRAPLPGKGTRGRAEVWTECPSSSWARAPRPSAPGK

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FIGURE 5534

GGCACGAGGGCCCTCTGGCGGCTCCGGACCACAGGCCGAGTTACTCTGATTACCGCCATGCTCCAAGACCCGCAC
TGACAGTCCCCACGTGAGGGACCGCGGTGGGAGTCCTAAATGGGGGAGGAGGGGACGGGCGGCACTGTGCATCTG
CTGTGCCTCGCGGCCCTCCAGCGGGGTCCCCCTATTCTGCAGGAGCAGTCGCGGCGGCGCCCCCGCCCGTCAGCAG
CTCCCCGTTCTCTGTTCATCGGTTCCCTCAATGGAGTCCACATGTTTGGGCAGAATCTGGAGGTGCAGCTGAGCTCT
GCGAGGACCCGAGAACACGACTGTGGTGTGGAAAAGCTTCCATGACAGCATCACCCCTCATTGTTCTGTTCATCTGAG
GTGGGCATCTCTGAGCTGAGGCTGGAGAGACTACTCCAAATGGTGTGGAGCCATGGTCCTTCTGTGGGACTT
GAAGAACTGACCAATATCCGCAACGTGGAGAGACTGAAGAAGGACTTGAGGGCCAGTTATTGCCTCATCGACAGC
TTCCTGGGGGACTCGGAGCTCATCGGGGACCTGACCCAGTGTGTGGACTGCGTGATTCTCCAGAGGGGTCCCTC
TTGCAGGAAGCCCTCTCCGGGTTCGCTGAGGCCGCGGGCACGACCTTCGTCAGTCTGGTGGTGTCCGGCCGGGTG
GTGGCAGCAACAGAGGGTTGGTGGCGGCTGGGGACGCCCCGAGGCCGTGCTGCTCCCCTGGCTGGTGGGTCCCTG
CCGCCGAGACCGCTCGCGACTACCCGGTGTACCTGCCGCACGGGAGCCCCACGGTCCCACACCGGCTCCTGACC
CTGACTCTGCTGCCGAGCCTGGAGCTGTGTCTACTCTGCGGGCCGAGCCCACCCCTCAGCCAGTTGTATCCACAG
CTTCTGGAGCGCTGGTGGCAGCCACTGCTGGACCCGTTGCGGGCCTGTCTGCCGTTGGGACCCCGGGCGCTGCCC
AGTGGCTTCCCCCTTCACACAGACATCCTCGGGCTGCTGCTCCTCCACCTGGAACCTGAAGCGCTGCCTCTTCACC
GTGGAGCCCTTGGGGGATAAAGAGCCTTCACCAGAACAGCGCCGGCGCCTCCTCCGAAACTTCTATACCCTGGTC
ACCTCCACGCACTTCCCACCAGAGCCAGGGCCACCAGAGAAGACAGAAGATGAGGTCTACCAGGCCAGCTGCCC
AGAGCTTGCTACCTGGTGTGGGGACTGAGGAACCAGGCACAGGAGTGCCTCTGGTGGCCTTGAGCTGGGGCTT
CGGCGGCTGCTGCTGCTGTCTCCCCAGAGTCCCACCCATGGGCTGCGAAGCCTGGCCACCCACACTCTGCAT
GCCCTCACCCCACTTCTTTGACTACCTAGCAGTGGGTGATGGACACAGACATGGGGCTGTTAGCGTCTCTCTGTT
TATTGCTCACAATAATACACAGCCCCTGGATGGGGAGGGGTAGGAGGGGCTACAACAGGGTGGGGTGGGAGGG
GAGGAGACATCCACTTCCCTGGCCCCCTCTCCCCTCTGTGCTTGGGGGGGAAAGGGAGGGGAGGGGACTCCCCCTA
ACCCCCAGAATGTAAACAGCAGCAGATGAACAAAATAAAAATACAAAAGGCCGAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 5535

MGEETGGTVHLLCLAASSGVPLFCRSSRGGAPARQQLPFSVIGSLNGVHMFQONLEVQLSSARTENTTVVWKSF
HDSITLIVLSSEVGISELRRLRLQMVFAMVLLVGLLELTNIRNVERLKKDLRASYCLIDSFLGDSELIGDLTQ
CVDCVIPPEGSLLQEALSGFAEAAGTTFVSLVVSGRVVAATEGWWRLGTPEAVLLPWLVGSLPPQTARDYPVYLP
HGSPTVPHRLLTLTLLPSLELCLLCGPSPPLSQLYPQLLERWWQPLLDPLRACLPLGPRALPSGFPLHTDILGLL
LLHLELKRCLFTVEPLGDKEPSPEQRRLLRNFYTLVTSTHFPEPFGPPEKTEDEVYQAQLPRACYLVLGTEEPG
TGVRLVALQLGLRRLLLLLSPQSPTHGLRSLATHTLHALTPLL

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FIGURE 5536

CGGCTCAGAGCTCCGGACCGCGGGCGGAGGGGAGGGGCGGGGCGGTGCCACGGCCTGCCAGCCCCGCCGCCG
CCCCCAGCCAGCCCTCCCCGCGGCCGGCTCGGCTCCTTGGCGCTGCCTGGGGTCCTTTCCGCCCGGTCCCCGCT
TGCCAGCCCCCGCTGCTCTGTGCCCTGTCCGGCCAGGCCTGGAGCCGACACCACCGCCATCATGCCGGCCGTGTC
CAAGGGCGATGGGATGCGGGGGGCTCGCGGTGTTTCATCTCCGACATCCGGAAGTGAAGAGCAAAGAGGCGGAAAT
TAAGAGAATCAACAAGGAAGTGGCCAACATCCGCTCCAAGTTCAAAGGAGACAAAGCCTTGGATGGCTACAGTAA
GAAAAAATATGTGTGTAAACTGCTTTTCATCTTCCTGCTTGGCCATGACATTGACTTTGGGCACATGGAGGCTGT
GAATCTGTTGAGTTCCAATAAATACACAGAGAAGCAAATAGGTTACCTGTTTCTGTGCTGGTGAAGTTCGAA
CTCGGAGCTGATCCGCTCATCAACAACGCCATCAAGAATGACCTGGCCAGCCGCAACCCACCTTCATGTGCCT
GGCCCTGCACTGCATCGCCAACGTGGGCAGCCGGGAGATGGGCGAGGCCTTTGCGCTGACATCCCCCGCATCCT
GGTGGCCGGGGACAGCATGGACAGTGTCAAGCAGAGTGGCGCCCTGTGCCTCCTTCGACTGTACAAGGCTCGCC
TGACCTGGTGGCCATGGGCGAGTGGACGGCGCGTGTGGTACACCTGCTCAATGACCAGCACATGGGTGTGGTCAC
GGCCGCCGTGACCTCATCACCTGTCTCTGCAAGAAGAACCAGATGACTTCAAGACGTGCGTCTCTCTGGCTGT
GTCGCGCCTGAGCCGGATCGTCTCCTCTGCCTCCACCGACCTCCAGGACTACACCTACTACTTCGTCCCAGCAC
CTGGCTCTCGGTGAAGCTCCTGCGGCTGTGTCAGTGTACCCGCTCCAGAGGATGCGGCTGTGAAGGGCGGCT
GGTGAATGTCTGGAGACTGTGCTCAACAAGGCCAGGAGCCCCCAAATCCAAGAAGGTGCAGCATTCACACGC
CAAGAACGCCATCCTCTTCGAGACCATCAGCCTCATCATCCACTATGACAGTGAGCCCAACCTCCTGGTTCGGGC
CTGCAACCAGCTGGGCCAGTTCTTGACAGACCGGGAGACCAACCTGCGCTACCTGGCCCTGGAGAGCATGTGCAC
GCTGGCCAGCTCCGAGTTCTCCCATGAAGCCGTCAAGACGCACATTGACACCGTCATCAATGCCCTCAAGACGGA
GCGGGACGTGACGTGCGGCAGCGGGCGGCTGACCTCCTCTACGCCATGTGTGACCGGAGCAATGCCAAGCAGAT
CGTGTGCGGAGATGCTGCGGTACCTGGAGACGGCAGACTACGCCATCCGCGAGGAGATCGTCTGAAGGTGGCCAT
CCTGGCCGAGAAGTACGCCGTGGACTACAGCTGGTACGTGGACACCATCCTCAACCTCATCCGCATTGCGGGCGA
CTACGTGAGTGAGGAGGTGTGGTACCGTGTGCTACAGATCGTCAACAACCGTGATGACGTCCAGGGCTATGCCGC
CAAGACCGTCTTTGAGGCGCTCCAGGCCCTGCGTGTACGAGAACATGGTGAAGGTTGGCGGCTACATCCTTGG
GGAGTTTGGGAACCTGATTGCTGGGGACCCCGCTCCAGCCCCCAGTGCAGTTCTCCCTGCTCCACTCCAAGTT
CCATCTGTGCAGCGTGGCCACGCGGGCGCTGCTGCTGTCCACCTACATCAAGTTTCATCAACCTCTTCCCCGAGAC
CAAGGCCACCATCCAGGGCGTCTGCGGGCCGGCTCCAGCTGCGCAATGCTGACGTGGAGCTGCAGCAGCGAGC
CGTGGAGTACCTCACCCCTCAGCTCAGTGGCCAGCACCAGCTCCTGGCCACGGTGTGAGGAGATGCCGCCCTT
CCCCGAGCGCGAGTCTCCATCCTGGCCAAGCTGAAACGCAAGAAGGGGCCAGGGGCCGCGCAGCGCCCTGGACGA
TGGCCGGAGGGACCCCAGCAGCAACGACATCAACGGGGGCATGGAGCCACCCCCAGCACTGTGTGACGCCCCC
GCCCTCCGCCGACCTCCTGGGGCTGCGGGCAGCCCCCTCCCCGGCAGCACCCCCGGCTTCTGCAAGGAGCAGGGA
CCTTCTGGTGGACGTCTTCGATGGCCCGGCCGCCCAGCCAGCCTGGGGCCCCACCCCCGAGGAGGCCTTCCTCAG
CGAGCTGGAGCCGCTGCCCCGAGAGCCCCATGGCTTTGCTGGCTGACCCAGCTCCAGCTGCTGACCCAGGTCC
TGAGGACATCGGCCCTCCATTCCGGAAGCCGATGAGTTGCTGAATAAGTTTGTGTGTAAGAACAACGGGGTCTCT
GTTGAGAACCAGCTGCTGCAGATCGGAGTCAAGTCAGAGTTCCGACAGAACCTGGGCCGATGTATCTCTTCTA
TGGCAACAAGACCTCGGTGCAGTTCCAGAATTTCTCACCCACTGTGGTTACCCGGGAGACCTCCAGACTCAGCT
GGCTGTGCAGACCAAGCGGTGGCGGCGCAGGTGGACGGCGGCGCAGGTGCAGCAGGTGCTCAATATCGAGTG
CCTGCGGGACTTCCTGACGCCCCCGCTGCTGTCCGTGCGCTTCCGGTACGGTGGCGCCCCCAGGCCCTCACCCCT
GAAGCTCCAGTGACCATCAACAAGTTCTTCCAGCCACCGAGATGGCGGGCCAGGATTTCTTCCAGCGCTGGAA
GCAGCTGAGCCTCCCTCAACAGGAGGCGCAGAAAATCTTCAAAGCCAACCAACCCCATGGACGCAGAAGTTACTAA
GGCCAAGCTTCTGGGGTTTGGCTCTGCTCTCCTGGACAATGTGGACCCCAACCTGAGAACTTCGTGGGGGCGGG
GATCATCCAGACTAAAGCCCTGCAGGTGGGCTGTCTGCTTCGGCTGGAGCCCAATGCCAGGCCAGATGTACCG
GCTGACCCTGCGCACCAAGGAGCCCGTCTCCCGTCACCTGTGTGAGCTGCTGGCACAGCAGTTCTGAGCCCT
GGACTCTGCCCCGGGGGATGTGGCCGGCACTGGGCAGCCCTTGGACTGAGGCAGTTTTGGTGGATGGGGGACCT
CCACTGGTGACAGAGAAGACACCAGGGTTTGGGGGATGCCTGGGACTTTCTCCGGCCTTTTGATTTTATTTT
TGTTTCATCTGCTGCTGTTTACATTCTGGGGGGTTAGGGGGAGTCCCCCTCCCTCCCTTTCCCCCCCCAAGCACAGA
GGGGAGAGGGGGCCAGGGAAGTGGATGTCTCCTCCCTCCCACCCACCCCTGTTGTAGCCCCCTCTACCCCTCCC
CATCCAGGGGCTGTGTATTATTGTGAGCGAATAAACAGAGAGACGCTAA

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FIGURE 5537

AGGCGCAGACGGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTACAAAACTTATGTGACCCCG
CGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCAACGTCCTGCTGCGGCGGCTGCTC
CGCATTGGGGTGCTGGATGAGGGCAAGACGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAG
AGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTGGCGTACTGATCCGCCAG
CGCCGTGTCAGGGTCCGCAATCAGGTGGCGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCGCATC
GACTTGTCTCTGCGCTCTCCCTATGGGGTGGCCGCCCCGGCCGCGTGAAGAGGAAGAACGCCAAGAAGGGCCAGG
GTGAGGGTGGGGCTGGAGACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGT
TTTCCTGCCAAATAAACAGGATCAGCACTTTAC

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FIGURE 5538

MPVARSWVCHKTYVTPRRPF EKSR LDQELK LIGNVLLRRLLRIGVLDEGKTKLDYILGLKIEDFLERRLQTQVFK
LGLAKSIHHAGVLIRQRRVRVRNQVANIPSFIVRLDSQKRIDLSLRSPYGVAAPAA

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FIGURE 5539

GTGGGCAGCCGAGGCCGCGAACTGCATCATGGAGAATTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCC
GCCTCTTGAAGAAGTGTCTGTGGCCAGGCCGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGA
TTACTACTTTGACTCCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTA
CCGCAACTCCATGTTTCATAACCGGCACCTCTTCAAGGACAAGGTGGTGTGCTGGACGTCGGCTCGGGCACCGGCAT
CCTCTGCATGTTTGCTGCCAAGGCCGGGGCCCGCAAGGTCATCGGGATCGTGTGTTCCAGTATCTCTGATTATGC
GGTGAAGATCGTCAAAGCCAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCT
CCCAGTGGAGAAGGTGGCATCATCATCAGCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACC
GTGCTCTATGCCCCGGGACAAGTGTGGCGCCCGATGGCCTCATCTTCCCAGACCGGGCCACGCTGTATGTGACGGC
CATCGAGGACCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGCAT
CAAAGATGTGGCCATTAAGGAGCCCCCTAGTGGATGTCTGTGGACCCCAAACAGCTGGTCACCAACGCCTGCCTCAT
AAAGGAGGTGGACATCTATAACCGTCAAGGTGGAAGACCTGACCTTACCTCCCCGTTCTGCCTGCAAGTGAAGCG
GAATGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTTACACGCTGCCACAAGAGGACCGGCTTCTC
CACCAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTCTTACATGGAGGACTACCTGACCGTGAAGAC
GGGCGAGGAGATCTTCGGCACCATCGGCATGCGGCCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGA
CCTGGACTTCAAGGGCCAGCTGTGCGAGCTGTCTGCTCCACCGACTACCGGATGCGCTTGAGGGCCCCGGCTCTCCC
GCCCTGCACGAGCCCAGGGGCTGAGCGTTTCTAGGCGGTTTCGGGGCTCCCCCTTCTCTCCCTCCCTCCCGCAG
AAGGGGGTTTTAGGGGCCTGGGCTGGGGGGATGGGGAGGGCACATCGTGAAGTGTGTTTTTCATAACTTATGTTTT
TATATGGTTGCATTTACGCCAATAAATCCTCAGCTGGG

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FIGURE 5540

MENFVATLANGMSLQPPLEEVSCGOAESSEKPN AEDMTSKDY YFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRH
LFKDKVVL DVGSGTGILCMFAAKAGARKVIGIVCSSISDYAVKIVKANKLDHVVTI IKGKVEEVELPVEKVASSS
ASGWATASSTSPCSTPCSM PGTSVAPDGLIFPD RATLYVTAIEDRQYKDYKIHWVENYGFDMSCIKDVAIKEPL
VDVVDPKQLVTNACL I KEVDIYTVKVEDLIFTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTH
WKQTVFYMEDYLT VKTGEEIFGTIGMRPN AKNNRDL DFTIDLDFKGQLCELSCSTDYRMR

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FIGURE 5541

AAGTAAGTATCCCCACTTTCAGGGTAGCATCCTCTTTCCTAGTTATTTTCAGTGCAGAATCGATTACAGTGTAAG
CCTCTACCTCCTGCACCTTACCCCAATGTAGACCCCTTCCACAGTCCCCCTACAGAAGATCTCCCAAAACATTTT
CAACACAGAACTTCCATTCAATTCCCCTCCGACTGCCCGCCTCCCTCCTCCAGGACAGAGCACGCCCCAGGTTTC
GAGACTGAACTACCCCATCTACGGAGTCCACCCCTCCCTCTCTAGAACCCCTCAGTGTAGACGCCTCCTCTTT
TCTCTTTTCTCCTTACTTTTTTCTAGTTTTTCTGCAGCCGACCTCCAGCGTCGGCCACTGTAGCTCCTTCCTTGC
TCCACTTTCCCCAGAGTACACAGCCTGCCTTTCCACTCTCCGTGCAGACCCATCCTCTTTCCCGCTCCTCGCTCT
CGGACGCCACCAACGCTCTCCCGGGCTCTTCCGCGTTACCTACGATGGAAGGTCGGGGCGTGCGGGCAGCTGGAA
CCCACCCCTGTCTTGGAGCTCCGGGTAGCTCTCAAACCTCGAGGCTGCGCACCCCTTTCCCGTCAGCTGAGCTCT
AGAGCGCTGGGGCTTTCTTTTTGATCGACTTCTTGAAATAAAACCAACTTTATCATTCTTTGGGTAACAGACCCA
AAAGCCGATGGGACGGCCCGCTGGGCTGTTCCCGCCCTATGCCCTTTTTTGGGTTTCCGGCCAGAGGCATGCTG
GGAGCGTCACATGCAAATTGAGCGTGCACCCAGCGTTCCGCCCTTTCTACGCTGGGCCGGTTATCGACCCGGCCC
AGTGCGCAGGCGCGGGAAAGTTGAACTAATAAAGTTTGACGAGTTCAGTGGAGGAGACCGCAAGTTGAGTGGAG
GAGGCGGCGGTGGGGCCCCGGACCAGGTGCCTCCATGGCAGGCTCTGAAGAGCTGGGGCTCCGGGAAGACACGCT
GAGGGTCCTAGCTGCCTTCCTTAGGCGTGGTGAGGCTGCCGGGTCTCCTGTTCCAACCTCCACCTAGAAGCCCTGC
CCAAGAAGAGCCAACAGACTTCCTGAGCCGCCTTCGAAGATGTCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCC
CTCTGAGTCCCCTCGGCCTTGCTCTCTGCCCATCCGCCCTGCTATGGTTTAGAGCCTGGCCCAGCTACTCCAGA
CTTCTATGCTTTGGTGGCCCAGCGGCTGGAACAGCTGGTCCAAGAGCAGCTGAAATCTCCGCCAGCCCAGAATT
ACAGGGTCCCCATCGACAGAGAAGGAAGCCATACTGCGGAGGCTGGTGGCCCTGCTGGAGGAGGAGGCAGAAGT
CATTAAACCAGAAGCTGGCCTCGGACCCCGCCCTGCGCAGCAAGCTGGTCCGCCTGTCTCCGACTCTTTCGCCCG
CCTGGTGGAGCTGTTCTGTAGCCGGGATGACAGCTCTCGCCCAAGCCGAGCATGCCCCGGGGCCCCCGCCTCCTTC
CCCGGAGCCCCTGCCCCGCTGGCCCTAGCCATGGAGCTGAGCCGGCGCTGGCCGGGCTGGGGGGCACCCCTGGC
CGGACTCAGCGTGGAGCAEGTGACAGCTTCACGCCCTGGATCCAGGCCACGGGGGCTGGGAGGGCATCCTGGC
TGTTTCACCCGTGGACTTGAACTTGCCATTGGACTGA

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FIGURE 5542

GGTTCAGCTGCCCCGACGCCCCGACCTTCCATCGTAGGCCGGACC**ATGGGA**ACCCCAAAGCCACGGATCCTGCC
CTGGCTGGTGTTCGCAGCTGGACCTGGGGCAACTGGAGGGCGTGGCCTGGGTGAACAAGAGCCGCACGCGCTTCCG
CATCCCTTGGAAGCACGGCCTACGGCAGGATGCACAGCAGGAGGATTTCGGAATCTTCCAGGCCTGGGCCGAGGC
CACTGGTGCATATGTTCCCGGGAGGGATAAGCCAGACCTGCCAACCTGGAAGAGGAATTTCCGCTCTGCCCTCAA
CCGCAAAGAAGGGTTGCGTTTAGCAGAGGACCGGAGCAAGGACCCTCACGACCCACATAAAATCTACGAGTTTGT
GAACTCAGGAGTTGGGGACTTTTCCAGCCAGACACCTCTCCGGACACCAATGGTGGAGGCAGTACTTCTGATAC
CCAGGAAGACATTCTGGATGAGTTACTGGGTAACATGGTGTGGCCCCACTCCCAGATCCGGGACCCCCAAGCCT
GGCTGTAGCCCCCTGAGCCCTGCCCTCAGCCCCTGCGGAGCCCCAGCTTGGACAATCCCACTCCCTTCCCAAACCT
GGGGCCCTCTGAGAACCCACTGAAGCGGCTGTTGGTGCCGGGGGAAGAGTGGGAGTTTCGAGGTGACAGCCTTCTA
CCGGGGCCCGCAAGTCTTCCAGCAGACCATCTCCTGCCCAGAGGGCCTGCGGCTGGTGGGGTCCGAAGTGGGAGA
CAGGACGCTGCCTGGATGGCCAGTCACACTGCCAGACCCTGGCATGTCCCTGACAGACAGGGGAGTGATGAGCTA
CGTGAGGCATGTGCTGAGCTGCCTGGGTGGGGGACTGGCTCTCTGGCGGGCCGGGCAGTGGCTCTGGGGCCAGCG
GCTGGGGCACTGCCACACATACTGGGCAGTGAGCGAGGAGCTGCTCCCCAACAGCGGGCATGGGCCTGATGGCGA
GGTCCCCAAGGACAAGGAAGGAGGCGTGTTTGACCTGGGGCCCTTCATTGTAGATCTGATTACCTTCACGGAAGG
AAGCGGACGCTCACCACGCTATGCCCTCTGGTTCTGTGTGGGGGAGTCATGGCCCCAGGACCAGCCGTGGACCAA
GAGGCTCGTGATGGTCAAGGTTGTGCCACGTGCCTCAGGGCCTTGGTAGAAATGGCCCGGGTAGGGGGTGCCTC
CTCCCTGGAGAATACTGTGGACCTGCACATTTCCAACAGCCACCCACTCTCCCTCACCTCCGACCAGTACAAGGC
CTACCTGCAGGACTTGGTGGAGGGCATGGATTTCAGGGCCCTGGGGAGAGCT**TGAG**CCCTCGCTCCTCATGGTGT
GCCTCCAACCCCCCTGTTCCCCACCACCTCAACCAATAAACTGGTTCCTGCTATGAA

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FIGURE 5543

MGTPKPRILPWLVSQDLGQLEGVAWVNKSRTFRIPWKHGLRQDAQQEDFGIFQAWAEATGAYVPGRDKPDLP
WKRNFERSALNRKEGLRLAEDRSKDPHDPHKIYEFVNSGVGDFSQPDTSPTDNGGGSTSDTQEDILDELLGNMVLA
PLPDGPPSLAVAPEPCPQPLRSPSLDNPTFPNLPSENPLKRLLPGEWEFEVTA FYRGRQVFQQTISCPEG
LRLVGSEVGDRITLPGWPTLDPGMSLTDRGVMSYVRHVLSCGGGLALWRAGQWLWAQRLGHCHTYWAVSEELL
PNSGHGPDGEVPKDKEGGVFDLGPFIIVDLITFTEGSGRSPRYALWFCVGESWPQDQPWTKRLVMVKVPTCLRAL
VEMARVGGASSLENTVDLHISNSHPLSLTSDQYKAYLQDLVEGMDFQGPGES

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FIGURE 5544A

CTGGGGTGTCTGTGCTGGGTCCAGCGCCACCCAAGCACAGGGTGGAGTGGGAGGAGGTGGAGGAGAGGAGGGGT
GCCAGAGGGGATGCTGAGGGAGATAGTGTGGGGCCCTTGAGGTCTTCATGCTCTATCCTCTACTTCCATCCTTTCT
CCCCGGACCTCCACTCCAAACTCTCCCCCTGGACCCCCAGGTGACCATGGAGGAAGAAGATGAGTCTCGAGGGA
AGACAGAGGAGTCGGGGGAGGATCGGGGCGATGGTCCGCCAGACAGAGACCCACGCTTTCTCCTTCTGCCTTTA
TCCTGCGAGCCATCCAGCAGGCTGTGGGAAGCTCCCTGCAGGGGGACCTGCCCAATGATAAAGATGGCTCTCGGT
GTATGGCCTTCGATGGCGGCGCTGCCGAGTCCACGGTCAGAGCCCCGTTCACAGGAATCAGGGGGCACTGACA
CGGCTACTGTGTGGACATGGCCACGGACAGCTTCTCGCAGGGCTGGTGAGTGTCTGGATCCCCCGGATACCT
GGGTTCACAGCCGCTGGACCTGCGGCTGGCGAAAGTGAGGACATGCTGGAGCTGGTGGCTGAGGTCCGAATCG
GGGACAGAGATCCATCCCTCTGCCTGTGCCAGCCTGCTGCCCCGTCTCAGGGCCTGGAGGACGGGCAAAACGG
TTTCTCCACAGTCGAACCTCTTAGGCCCACCTGTGCCCGTCACCTCACCTTGCGCACGGGAGACGGGGGCCCTG
CCCCACCCCTGCCCCCTCTCTGCATCCTCTCCCTTCCCCCTTCTCCCTCATCTTCTCCCTTCCCCCTCCCC
CACCCACCGCCCCCTGCACCCACGCCCCACCTGCCCCCGATTGATATCTATGACCCCTTCCACCCACCG
ACGAGGCCTACTCTCCACCGCTGCTCCGAGCAAAAGTACGACCCCTTTGAGCCACCGGCTCCAACCCAGCT
CATCAGCGGGGACCCCTCACCTGAGGAGGAAGAGGAGGAGGAAGAGGAAGAAGAGGAAGAGGACGAGG
AGGAGGAGGAAGGCCTGTCCAGAGCATCAGCCGATCTCGGAGACCCCTGGCGGGCATCTACGATGACAACAGCC
TGAGCCAGGACTTCCCAGGTGACGAGAGCCCCCGCCGACGCGCAGCCACACAGCCGACTCCCGCCCCCTGGAA
CGCCGCCCCAGGTGGACTCCACCGGGCTGATGGAGCCATGCGCCGGCGGGTCTTCGTGGTGGGGACCGAGGCAG
AGGCTTGTGCGGAAGGCAAGGTCTCGGTGGAGGTGGTGACCGCTGGTGGAGCCGCCCTCCCGCCGCCCTGTGC
CGCCCGGCGACTCGGAGATCGAGGAAGGGGAGATCGTCCAGCCGAGGAGGAGCCAGGCTGGCGCTGTCCCTCT
TCCGCCCGGCGGCCGGGCCGCCGCCCTACACCGGCCGCTCGGCCACCCACCGGCCAGCCCTTCTCTCAGC
CTCCCGCTCCGCGGGCCCCGAGGGGACGACTTCTTGTCCCTGCATGCGGAGTCGGACGGCGAGGGCGCCCTGC
AGGTGGACCTAGGGGAGCCGGCTCCCGCGCCGCCGCCGACTCGCGCTGGGGCGGGCTGGACCTGCGCCGCA
AGATCCTGACCCAACGCGGGGAGCGCTACCGCCAGCGCTCGCCCTCCCGGGCGCCCGCGCCCGCCCGGCCG
CTGCTGGTCCGCCACGCGCAAGAAGTCCAGGCGGGAACGCAAGCGCAGCGGCGAGGCCAAGGAGGCCGCTCGT
CCTCGTCGGGCACCCAGCCAGCGCCGCCGCCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCACCCGCC
GCCGCTCGCGCAGCACCGACCGCGCGGGGCGAGCCGAGGTGCGGCTCCCGGGAGAAGCGGCGACGGCGGC
GGCGCTCCGCTCCCGCCCCCGGCCACTTCTCATCGTCTCTCGAGGCGGAGCGGCACCGCGGGAACACC
GGGACGGTGGCGGCAGCAAGAAGAAGAAGCGGTGCGGCTCCCGGGGTGAGAAGCGGTCTGGGGATGGCAGCG
AGAAGGCCCCGGCGCCCGCCCGCCGCTCTGGCTCCACCTCGTGTGGTGACCGCGACAGCCGCCCGGGGGG
CCGTGCCACCTCCATCCAGGACCTACGGACACGACCTCTTCGCCATCAAGCGGACCATCACGGTGGGCCGGC
TTGACAAGTCCGACCCCGAGGACCTCTCTGCTCCGGCCTCTCACCTAAGCGGGAGGTCTGTACGACTCCG
AGGGACTGAGCGGCGAGGAGCGGGGCGGCAAGAGCAGCCAGAAGGATCGGCGCCGCTCGGGGGCCGCTCTCTCT
CCTCCTCTTCCCGGAGAAGGGTCTCGTCCGAAGGCGCTGGACGGGGGTGACCGGGATCGGGACAGGGACAGAG
ATAGGGACAGGGACAGGTCAATCAAGAAGGCCCGGCCCCCAAGGAGTCGGCGCCTTCTCAGGGCCCCGCCAA
AGCCACAGTCAGCAGCGGCTCAGGCTCTTCATCCTCGTCTCTCTCTTCTTCCCGGAAGGTGAAGCTGCAGT
CCAAGGTGGCGGTGCTGATCCGCGAGGGTGTGAGCAGCACCCCGGCCAAGGATGCCGCGTCAGCCGGCCTGG
GCTCCATTGGCGTCAAATTCAGCCGTGACCGCGAGAGTCGCTCCCCCTTCTCAAACCTGACGAGCGGGCCCCCA
CTGAGATGGCCAAAGCAGCTCCGGGCGAGCACAAGGCCAAAAGACCAAGGTCAAGGCCAAGGCAGGGGCCAAGA
AAACCAAGGGGACCAAGGGAAAGACCAAGCCATCCAAGACCAGGAAAAGGTCCGCGAGTGAGGTGGCAGCGGGG
GCAGTGGTGGCCAGGTGTGCTGAAGAAGTCCAAGGCGGATAGCTGCAGCCAGGCGGACGGCACCAAGGGGGCGG
AGGAGACTTCTGGTCCGGGGAGGAGCGGGCAGCCAAGGTTCTTAGCACCCCGCCCCCAAGGCAGCCCCACCAC
CCCCTGCCCTCACTCCGACTCGCAGACCGTGGACAGCAGCTGCAAGACACCTGAGGTCTCTTCTGCCCCGAGG
AGGCCACTGAGGAGGCTGGGGTCCGAGGTGGGGCGGAGGAGGAGGAGGAAGAAGAAGAGGAGGAGGAAGAGG
AAGAGGAGGAGGAGCAGCAGCCTGCTACCACCACGGCCACCAGCACTGCTGCAGCCGCCCAAGCACTGCCCCCA
GCGCGGGGTCCACAGCCGGTGACTCGGGGGCGGAGGACGGGCCAGCTTCCCGTGTCTCCAGCTGCCACGTTGC
CCCCGCCCATGCCCTGGAATCTGCCAGCTGGTGTGGACTGCACCACCAGCGGCGTCTGGCCTTGACTGCACTTC
TCTTCAAGATGGAAGAAGCCAACCTGGCGAGCCGAGCGAAGGCCAGGAGCTGATCCAGGCCACCAACCAGATCC

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FIGURE 5544B

TCAGCCACAGAAAGCCACCCTCAAGTCTGGGGATGACCCCAGCTCCTGTGCCCACCTCTTTGGGTCTGCCCCCTG
GCCCCCTCCAGCTACCTGCTTCCTGGCAGCCTCCCTCTGGGGGGCTGCGGTTGACCCCCCCCCACCCCCACCGGGC
TGGCTGCCACGTCTGACAAGAGAGAGGGGCAGCAGCAGCTCTGAGGGCCGTGGGGACACAGATAAGTATCTGAAGA
AGCTGCACACGCAGGAGCGGGCGGTGGAGGAGGTGAAGCTGGCCATCAAGCCATACTATCAGAAGAAGGACATCA
CCAAGGAGGAGTACAAGGACATCCTGAGGAAGGCCGTCCACAAGATCTGCCACAGCAAAAGTGGGGAAATCAACC
CAGTGAAGGTGAGCAACCTGGTGCGGGCCTACGTCCAGCGCTACCGCTACTTCCGCAAGCACGGTCGCAAGCCAG
GGGACCCCCCAGGGCCCCCACGGCCGCCAAGGAGCCAGGGCCCCCAGACAAGGGTGGCCCGGGCCTGCCCCCTGC
CCCCCTCTCTGAGAGCCCTGGCCAGCTCTTCGCCCCCTCACCTCTTTGAAACTCTGGACGTATTTATGGCTCCACCT
CCCCACCTCCCTCCCCCGTCAGTGGGATGACTGGGGGAGGGTTGCTGCAGGGAAGAGGAGAGCCCCCTGCCCTGC
CCTGCCCCGTGTCCACCTCCCTTGCCCCAAGCCTGTCCCCAGTGCCCCTCCCTTCTGTTTGTGCCCCCTCTCCCC
AATTTCAATAAAGATTTTCATGAAACATT

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FIGURE 5545

MSILYFHPF SRDLH SKLSPLDPQVT MEE EDESRGKTEESGEDRGDGPDRDPTLSPSAFILRAIQQAVGSSSLQGD
LPNDKDGSRCHGLRWRRCRSPRSEPRSQESGGTD TATVLDMATDSFLAGLVSVLDPPDTWVPSRLDLRPGESDM
LELVAEVRIGDRDPIPLPVPSLLPRLRAWRTGKT VSPQSNSSRPTCARHLTLGTGDGGPAPPAPSSASSSPSPS
PSSSSPSPPPPPPPPPAPPAPPAPRFDIYDPFHPTDEAYSPPPAPEQKYDPFEPTGSNPSSSAGTPSP EEEEEEE
EEEEEEEEEGLSQSISRISETLAGIYDDNSLSQDFPGDES PRPDAQPTQPTPAPGTPPQVDSTRADGAMRR
RVFVVGTEAEACREGKVSVEVVTAGGAALPPPLLPPGDSEIEEGEIVQPEEEPRLALS LFRPGGRAARPTPAASA
TPTAQPLPQPPAPRAPEGDDFLSLHAESDGE GALQVDLGEPA PAPPAAADSRWGGLDLRRKILTQRRERYRQRSPS
PAPAPAPAAAAGPPTRKKSRRERKRSGEAKEAASSSSSGTQPAPPAPASPWD SKKHSRDRKPGSHASSSARRRSR
SRSRSRSTRRRSRSTDRRRGGSRRRSREKRRRRRRSASPPPATSSSSSRERHRGKHRDGGGSKKKKKRSRSR
GEKRSGDGSEKAPAPAPPPSGSTSCGDRDSRRRGAVPPSIQDLTDHDLFAIKRTITVGR LDKSDPRGPPSPAPASS
PKREVL YDSEGLSGEERGGKSSQKDRRRSGAASSSSSSREKGSRRKALDGGDRDRDRDRDRDRSSKKARPPKE
SAPSSGPPPKPPVSSSGSGSSSSSSSCSSRKVKLQSKVAVLIREGV SSTTPAKDAASAGLGSIGVKFSRDRESRSP
FLKPDERAPTEMAKAAPGSTKPKKTKVKAKAGAKKTGKTGKTKPSKTRKKVRSGGGSGGSGGQVSLKKSKADSC
SQAAGTKGAEETSWSGEERA AKVPSTPPPKAAPPPPALTPDSQTV DSSCKTPEVSFLPEEATEEAGVRGGAEEEE
EEEEEEEEEEEEEEQQPATTTATSTAAAAPSTAPSAGSTAGDSGAEDGPASRVSQLPTLPPMPWNLPAGVDCTT
SGVLALTALLFKMEEANLASRAKAQELIQATNQILSHRKPPSSSLGMTPAPVPTSLGLPPGPSSYLLPGSLPLGGC
GSTPPTPTGLAATSDKREGSSSSEGRGDTDKYLKKLHTQERAVEEVKLAIKPYYQKKDITKEEYKDILRKAVHKI
CHSKSGEINPVKVSNLVRAYVQRYRYFRKHGRKPGDPPGPPRPPKEPGPPDKGPGPLPLPPL

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FIGURE 5546

GGCACGAGGAAGCGACCGAGGGACTGGGAGTCGTTAGTGAGAGTTTCACTCTTGTTGCCTAGGCTGGAGTGCAAT
GGTGCGATCTTGGCTCATCACGACCTTCGCCTCCCAGGTTCAAGTGATTGTCCCATTTTCAGCCTCCCGAGTAGCT
GGGATTACAGGATGACGCGGCATGGCAAGAACTGCACCGCAGGGGCGGTCTACACCTACCACGAGAAGAAGAAGG
ACACAGCGGCCTCGGGCTATGGGACCCAGAACATTGACTGAGCCGGGATGCCGTGAAGGACTTCGACTGCTGTT
GTCTCTCCCTGCAGCCTTGCCACGATCCTGTTGTACCCCAGATGGCTACCTGTATGAGCGTGAGGCCATCCTGG
AGTACATTCTGCACCAGAAGAAGGAGATTGCCCGGCAGATGAAGGCCTACGAGAAGCAGCGGGGCACCCGGCGCG
AGGAGCAGAAGGAGCTTCAGCGGGCGGCCTCGCAGGACCATGTGCGGGGCTTCCTGGAGAAGGAGTCGGCTATCG
TGAGCCGGCCCCCTCAACCCTTTCACAGCCAAGGCCCTCTCGGGCACCAGCCCAGATGATGTCCAACCTGGGCCCCA
GTGTGGGTCTTCCAAGTAAGGACAAGGACAAAGTGCTGCCCAGCTTCTGGATCCCGTCGCTGACGCCCGAAGCCA
AGGCCACCAAGCTGGAGAAGCCGTCCCGCACGGTGACCTGCCCCATGTCAGGGAAGCCCTGCGCATGTGCGGACC
TGACGCCCCGTGCACTTCACACCGCTAGACAGCTCCGTGGACCGCGTGCGGGCTCATCACCCGCAGCGAGCGCTACG
TGTGTCCGTGACCCGCGACAGCCTGAGCAACGCCACCCCTGCGCTGTGCTGCGGCCCTCTGGGGCTGTGGTCA
CCCTCGAATGCGTGAGAGAAGCTGATTGCGGAAGGACATGGTGGACCCTGTGACTGGAGACAACTCACAGACCGCG
ACATCATCGTGCTGCAGCGGGGCGGTACCGGCTTCGCGGGCTCCGGAGTGAAGCTGCAAGCGGAGAAATCACGGC
CGGTGATGCAGGCCTGAGTGTGTGCGGGAGACCAATAAACCGGCTTGGGTGCGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5547

MTRHGKNCTAGAVYTYHEKKKDTAASGYGTQNIRLSRDAVKDFDCCCLSLQFCHDPVVTPDGYLYEREAILLEYIL
HOKKEIARQMKAYEKQRGTRREEQKELQRAASQDHVRGFLEKESAIVSRPLNPFTAKALSGTSPDDVQPGPSVGP
PSKDKDKVLPFSWIPSLTPEAKATKLEKPSRTVTCMSGKPLRMSDLTPVHFTPLDSSVDRVGLITRSERYVCAV
TRDSLSNATPCAVLRPSGAVVTLECVKELIRKDMVDPVTGDKLTDRDIIVLQRGGTGFAGSGVKLQAEKSRPVMQ
A

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FIGURE 5548

GAAGGATATTAAAGAGCACCTGCAGGAATTTTTTAAGGGGATGCCGGGGGAAGGGCTTGAAGGAGGAACTAAGGA
GGCTTCCAGAAGATTTTGATTAAACAGCGAGCGCTAGGGAAGGCCACGGGGATACAGAGGGGTAGGAGGAGGATCC
AGAGACCTCCAAGTTGTGGACTCCGGAGGCATCGAGTTCCTTTCCAGTTTTTGTCAAGAATTCCCTGAGCGGCAG
ACACCCTCAAAGTAAAAAACGGGAACACAGAGAAGGAAAAAGAAGAACACAAGCGTTTTGAGAAACAAACAGG
CTGGGCCTAGGGCCTGGGGTGTGCCCTGCAACTGGGGGGTGGGGCTGGATGTTCTTGAGAGTCAGGGAGCAGCAGC
CTCCACAGGATGTGAGAGAGGAACCTGGGGTCTCCAGTCACGGGAGCCAGGAGCCGGCCAGGGCCGCAGGCAGGA
AGCGGAGCGAGGCTGAAGGGAACCTCGTCCTCTCAGCATGGGGGTCCC CGGCCTCAGCCCTGGGCGCTGGGGCT
CCTGCTCTTTCTCCTTCCTGGGAGCCTGGGCGCAGAAAGCCACCTCTCCCTCCTGTACCACCTTACCGCGGTGTC
CTCGCCTGCCCCGGGACTCCTGCCTTCTGGGTGTCCGGCTGGCTGGGCCCGCAGCAGTACCTGAGCTACAATAG
CCTGCGGGGCGAGGCGGAGCCCTGTGGAGCTTGGGTCTGGGAAAACCAGGTGTCCTGGTATTGGGAGAAAGAGAC
CACAGATCTGAGGATCAAGGAGAAGCTCTTTCTGGAAGCTTTCAAAGCTTTGGGGGGAAAAGGTCCCTACACTCT
GCAGGGCCTGCTGGGCTGTGAACTGGGCCCTGACAACACCTCGGTGCCCACCGCCAAGTTCGCCCTGAACGGCGA
GGAGTTCATGAATTTTGACCTCAAGCAGGGCACCTGGGGTGGGGACTGGCCCGAGGCCCTGGCTATCAGTCAGCG
GTGGCAGCAGCAGGACAAGGCGGCCAACAAGGAGCTCACCTTCCTGCTATTCTCCTGCCCGCACCGCCTGCGGGA
GCACCTGGAGAGGGGCGCGGAAACCTGGAGTGAAGGAGCCCCCTCCATGCGCCTGAAGGCCCGACCCAGCAG
CCCTGGCTTTTCCGTGCTTACCTGCAGCGCCTTCTCCTTCTACCCTCCGGAGCTGCAACTTCGGTTCCTGCGGAA
TGGGCTGGCCGCTGGCACCGGCCAGGGTGACTTCGGCCCCAACAGTGACGGATCCTTCCACGCCTCGTCGTCACT
AACAGTCAAAAAGTGGCGATGAGCACCCTACTGCTGCATTGTGCAGCACGCGGGGCTGGCGCAGCCCCCTCAGGGT
GGAGCTGGAATCTCCAGCCAAGTCCCTCCGTGCTCGTGGTGGGAATCGTCATCGGTGTCTTGCTACTCACGGCAGC
GGCTGTAGGAGGAGCTCTGTTGTGGAGAAGGATGAGGAGTGGGCTGCCAGCCCCCTTGGATCTCCCTTCGTGGAGA
CGACACCGGGGTCTCTCCTGCCACCCCAGGGGAGGCCAGGATGCTGATTGAAAGGATGTAAATGTGATTCCAGC
CACCGCCTGACCATCCGCCATTCCGACTGCTAAAAGCGAATGTAGTCAGGCCCCCTTTCATGCTGTGAGACCTCCT
GGAACACTGGCATCTCTGAGCCTCCAGAAGGGTTCTGGGCCTAGTTGTCTCCTCCTCTGGAGCCCCGTCTGTGG
TCTGCCTCAGTTTCCCCCTCCTAATACATATGGCTGTTTTCCACCTCGATAATATAACACGAGTTTGGGCC

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FIGURE 5549

TTTCTTTTTTTCAGGCGGCCGGGAAGATGGCGGACATTCAGACTGAGCGTGCCTACCAAAAGCAGCCGACCATCT
TTCAAAACAAGAAGAGGGTCCTGCTGGGAGAACTGGCAAGGAGAAGCTCCCGCGGTACTACAAGAACATCGGTC
TGGGCTTCAAGACACCCAAGGAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCTTCACTGGTAATGTGT
CCATTGAGGGCGGATCCTCTCTGGCGTGTTGACCAAGATGAAGATGCAGAGGACCATTGTCATCCGCCGAGACT
ATCTGCACTACATCCGCAAGTACAACCGCTTCGAGAAGCGCCACAAGAACATGTCTGTACACCTGTCCCCCTGCT
TCAGGGACGTCCAGATCGGTGACATCGTACAGTGGGCGAGTGCCGGCCTCTGAGCAAGACAGTGCCTTCAACG
TGCTCAAGGTCACCAAGGCTGCCGGCACCAAGAAGCAGTTCCAGAAGTTCTGAGGCTGGACATCGGCCCGCTCCC
CACAATGAAATAAAGTTATTTTCTCATTCCAGGCCAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5550

CTTTTCCAAGCGGCTGCCGAAGATGGCGGAGGTGCAGGTCTTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCCG
CCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTCGTACGCTGTGAAGGCATCAACAT
TTCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTGGCTTTCTCCGCAAGCGGATGAACACCAACCCCTTCCCG
AGGCCCCCTACCACTTCCGGGCCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAA
GCGAGGCCAGGCCGCTCTGGACCGTCTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGAAAAAGCGGAT
GGTGGTTCTTGCTGCCCTCAAGGTGCTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCA
CGAGGTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTA
CCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACAC
AGAGGTCCTCAAGACCCACGGACTCCTGGTCTTGAGCCCCAATAAAGACTGTTAATTCCTCATGCGTTGCCTGCCCT
TCCTCCATTGTTGCCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGTGCCACAGGCAGCCCTGGGACA
TAGGAAGCTGGGAGCAAGGAAAGGGTCTTAGTCACTGCCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAATTGTGC
AGGTGTCAATTTATCTATGACCAATAGGAAGAGCAACCAGTTACTATGAGTGAAAGGGAGCCAGAAGACTGATTGG
AGGGCCCTATCTTGTGAGTGGGGCATCTGTTGGACTTTCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGC
AAGCACTTGGGGACAGCATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGC
ACAACCAAGGGGTTACAGGCATCGCCCATGCTCCTCACCTGTATTTTGTAAATCAGAAATAAATTGCTTTTAAAGA
AAAAAAAAAAAAAAAAAA

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FIGURE 5551

MAEVQVLVLDGRGHLLGRLAAIVAKQVLLGRKVVVVRCEGINISGNFYRNKLKYLAF LRKRMNTNPSRGPYHFRA
PSRIFWRTVRGMLPHKTKRGQAALDRLKVFDGIPPPYDKKKRMVVP AALKVVRLKPTRKFAYLGRLAHEVGWKYQ
AVTATLEEKRKEKAKIHYRKKKQLMRLRKQAEKNVEKKIDKYTEVLKTHGLLV

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FIGURE 5552

CGCAGTCTTCGCGGAAAGCGTTCGGGGTAGGCGATGGCTGCGACGCGTGACAGGGCCCCGCGCCGCGAGATCTTC
ACCTCGCTGGAGTACGGACCGGTGCCGGAGAGCCACGCATGCGCACTGGCCTGGCTGGACACCCAGGACCGGTGC
TTGGGGCCACTATGTGAATGGGAAGTGGTTAAAGCCTGAACACAGAAATTCAGTGCCCTGCCAGGATCCCATCACA
GGCTGGCCGAGGTGATCCAGAAGCACCAGCGGCTGCTGTGGACCCTGGAATCCCTGGTGAAGTGGGCGGGCTGTTT
GAGAGGTTTCGAGACGGGGACGTCCAGCTGGCCAGCAGCTGCTCCACTACCATGCAATCCAGGCATCCACCCAGG
AGGAGGCACTGGCAGGCTGGGAGCCCCATGGGAGTAATTGGCCTCATCTGCCACCCACATTCTCTTCTTGAGA
TGATGTGGAGGATTTGCCCTGCCCTGGCTGTGGGCTGCACCGTGGTGGCCCTCGTGCCCCCGGCTCCCCGGCGC
CCCTCCTCTGGCCAGCTGGCGGGGGAGCTGGGCCCCCTTCCCGGGAATCCTGAATGTCTCAGTGGCCCTGCGT
CCCTGGTGGCCATCTTGCCCTCCAGCCTGGAATCCGGAAGGTGGCCTTCTGCGGAGCCCCGGAGGAAGGGCGTG
CCCTTCGACGGAGCCTGGCGGGAGAGTGTGCGGAGCTGGGCTGGCGCTGGGGACGGAGTCGCTGCTGCTGA
CGGACACGGCGGACGTAGACTCGGCCGTGGAGGTGTCTGTGGACGCCGCTGGTCCGACCGCGGCCCGGGTGGCC
TCAGGCTCCTCATCCAGGAGTCTGTGTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGATGGGGCGGCTTCGGA
GTGGCCGAGGGCTGGATGGGGCCGTGGACATGGGGGCCCCGGGGGCTGCCGCATGTGACCTGGTCCAGCGCTTTG
TGGCTGAGGCCCCAGAGCCAGGTGCACAGGTGTTCCAGGCTGGTGTGCTTCCGGAACGCCCCATTCTATCCCC
CAACCTTGGTCTCCAACCTGCCCCAGCCTCCCCATGTGCCAGGTGGAGGTGCCGTGGCCTGTGGTCTGGCCT
CCCCCTTCCGCACAGCCAAGGAGGCACTGTTGGTGGCCAACGGGACGCCCCGCGGGGGCAGCGCCAGTGTGTGA
GCGAGAGGCTGGGGCAGGCGCTGGAGCTGGGCTATGGGCTCCAGGTGGGCACTGTCTGGATCAACGCCACGGCC
TCAGAGACCCCTTCGTGCCCCACAGGCGGCTGCAAGGAGAGTGGGTGTTCTTGGCACGGGGGCCAGACGGGCTGT
ATGAGTATCTGCGGCCCTCAGGGACCCCTGCCCGCTGTCTGCTCTCCAAGAACCTGAACTATGACACCTTTG
GCCTCGCTGTTCCCTCAACCTGCCGGCTGGGCTGAAATAGGGCCAGCCAGCACCCCCCTATGGGCTCTTCG
TTGGGGGCGGTTTCCAGGCTCCTGGGGCCCCGAAGCTCCAGGCCATCCGGGATTCGTCTGGCAACCTCCATGGCT
ACGTGGCTGAGGGTGGAGCCAAGGACATCCAGGTGCTGTGGAGGCCGCTCACCAGGCTTTCCCTGGCTGGGCGG
GCCAGTCCCCAGGAGCCCCGGGACGCCCTGCTGTGGGCCCTGGCGGCTGCACTGGAGCGCCGGAAGTCTACCCTGG
CCTCGAGGCTGGAGAGGCAAGGAGCGGAGCTCAAGGCTGCGGAGGCGGAGGTGGAGCTGAGCGCAAGACGACTTC
GGGCGTGGGGGGCCCCGGGTGCAGGCCCAAGGCCACACCCTGCAGGTAGCCGGGCTGAGAGGCCCTGTGCTGCGCC
TGCGGGAGCCGCTGGGTGTGCTGGCTGTGGTGTGTCCGGACGAGTGGCCCCCTGCTTGCTTCGTGTCCCTGCTGG
CTCCCGCCCTGGCCTACGGCAACACTGTGGTATGGTGCCAGTGGGCCCTGTCTCTGCTGGCCCTGGAGGTCT
GCCAGGACATGGCCACCGTGTTCAGCAGGCTGGCCAACGTGGTGTACAGGAGACCGGGACCATCTGACCCGCT
GCCTGGCCTTGACCAAGACGTCCAGGCCATGTGGTATTTTCGGATCAGCCAGGGTTCCAGTTTGTGAGTGGG
CCTCGGCAGGAAACCTCAAACCGGTGTGGGCGAGCAGGGGCTGCCCGCGGGCCTGGGACAGGAGCCGAGGGGG
CAGGCCCAGAGCTGGGGCTGCGAGTGGCGCGGACCAAGGCCCTGTGGCTGCCATGAGGGGACTGATGCTGAGCG
CCACCTACTGCATTTTGGACACCTCACACCAAGGGGAGATGCACCCACAGACACCTGGGACTTTCCCTTCTGG
TTCTGTGTCTCCCAATAAACTCTCTGACCAACCCTAGCTGTGCTTCTGCGAGAAGAAAGGGTGTAGCAACTTCT
GGCAGATATGAGGCTTTTTTCTTTTTTTTTTTTTTTTTTGGAGACAACGTCTGGCTCTGTACCCAGGCTGGAGCG
CAGTGGCACAAATCTCGGCCACTGCAGCCTCGACCTCTGGGCTCAAGGGATCCTCATGCCTCAGCCTCATATGT
AGCTGGGGCCACAGACATGCACCACACCTGGCTCGAGGCCATTTAGTTCTGAGGTGAGCAGCTCAGGAGC
CGGCTCCAGCACGGTGTGTGTTGTGAAACAGAGAAAGGGGACCCCCGAGGACCCAGACAGGGCCTTAGGACT
CTCATATCTTCTGTCTTCTCCATCTGGTGGCTCTTGCTCTCTGGTTTTCTCTACCTTTTCATGGCCCCAGAATC
CATATGCAGTAAAGGAACCTCTTGAATAAAATTAAAGTCCTCT

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FIGURE 5553

MGVIGLILPPTFSFLEMMWRICPALAVGCTVVALVPPASPAPLLLAQLAGELGPFPGILNVLSGPASLVPILASQ
PGIRKVAFCGAPEEGRALRRSLAGECAELGLALGTESLLLLTDTADVDSAVEGVVDAAWSDRGPGGLRLLIQESV
WDEAMRRLQERMGRRLRSGRGLDGAVDMGARGAAACDLVQRFVREAQSQGAQVFQAGDVPSEPFYPPTLVSNLPP
ASPCAQVEVPWPVVVASPFRTAKEALLVANGTPRGGSASVWSERLGQALELGYGLQVGTVWINAHGLRDP SVPTG
GCKESGCSWHGGPDGLYEYLRPSGTPARLSCLSKNLNYDTFGLAVPSTLPAGPEIGPSPAPPYGLFVGGRFQAPG
ARSSRPIRDSSGNLHGYVAEGGAKDIRGAVEAAHQAFPGWAGQSPGARAALLWALAAALERRKSTLASRLERQGA
ELKAAEAEVELSARRLRAWGARVQAQGHTLQVAGLRGPVLRRLREPLGVLA VVCPDEWPLLA FVSL LAPALAYGNT
VVMVPSAACPLLAEVCQDMATVFPAGLANVVTGDRDHLTRCLALHQDVQAMWYFGSAQGSQFVEWASAGNLKPV
WASRGCPRAWQEAEGAGPELGRLRVARTKALWLPMGD

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FIGURE 5554

ACAGTTCGGCACGTAGGACGGAGGGTAGTGCGTCTAGAGACACATATTCCCCACGGATTTGACGATGGTGTTCGG
TCTTGAATGGAAATGTAGTCTTAGGCCAGTCTTAGGTTTTTGAACAGGATAGTAGGTATCCGGAGTCGATTGAGG
GCCAGAGCAGGCACTGGGGTTCGGATCCTGGGCAAAGTTTCCCACGTTGAGGGTCTCGAGGACGCCTAGATCTCT
TTCCCAGGGCCATGGCGAACCCGAAGCTGCTGGGAATGGGGCTAAGCGAGGCGGAGGCGATCGGTGCTGATTTCGG
CGCGATTTGAGGAGCTGCTGCTGCAGGCCTCGAAGGAGCTCCAGCAAGCCCAGACAACCAGACCAGAATCGACAC
AAATCCAGCCTCAGCCTGGTTTCTGCATAAAAGACCAACTCCTCGGAAGGGAAGGTTTTTCATCAACATCTGCCACT
CCCCCTCTATCCCTCCTCCCGCCGACGTGACCGAGGAGGAGCTGCTTCAGATGCTAGAGGAGGACCAAGCTGGGT
TTCGCATCCCCATGAGTCTGGGAGAGCCTCATGCAGAACTGGATGCAAAAGGCCAGGGATGTACCGCCTACGACG
TAGCTGTCAACAGCGACTTCTACCGGAGGATGCAGAACAGCGATTTCTTGCGGGAGCTCGTGATCACCATCGCCA
GGGAGGGCCTTGAGGACAAATACAACTTGCAGCTGAATCCGGAATGGCGCATGATGAAGAACCGGCCATTTCATGG
GCTCCATCTCGCAGCAGAACATCCGCTCGGAGCAGCGTCTCGGATCCAGGAGCTGGGGGACCTGTACACGCCCCG
CCCCCGGGAGAGCTGAGTCAGGGCCTGAAAAGCCTCACCTGAACCTGTGGCTGGAAGCCCCCGACCTCCTCTTGG
CCGAAGTTGACCTCCCCAAACTGGATGGAGCCCTGGGGCTGTCGCTGGAGATCGGGGAGAACCGCCTGGTGATGG
GGGGCCCCCAGCAGCTGTATCATCTAGACGCTTATATCCCGCTGCAGATCAACTCTCATGAGAGCAAGGCAGCCT
TCCACCGGAAGAGAAAGCAATTAATGGTGGCCATGCCGCTTCTGCCGCTGCCTTCTTGATCAGGGTGTCTCCTTG
TGCTTCTGAGATGTGGAGAAGAGGCTGCTGGCTTCCCTAAAAGTTGAAATAAAAGATTTTTGCCTTTAAAAAAA
AAAAAAA

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FIGURE 5555

MANPKLLGMGLSEAEAIGADSARFEELLLQASKELQQAQTTREPTQIQPQPGFCIKTNSSEGKVFINICHSPSI
PPPADVTEEEELLQMLEEDQAGFRIPMSLGEPHAELDAKGQGCTAYDVAVNSDFYRRMQNSDFLRELVITTIAREGL
EDKYNLQLNPEWRMMKNRPFMGSIQQNIRSEQRPRIQELGDLYTPAPGRAESGPEKPHNLWLEAPDLLLAEVD
LPKLDGALGLSLEIGENRLVMGGPQQLYHLDAYIPLQINSHESKAAFHRKRKQLMVAMPLLPVPS

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FIGURE 5556

CCCACTTTTCCCAAACAAAGCTCCCGGCAACTTTCTCCCTCGCAGCGCCCCGCCCGCCCGCGGCTCCCCAGCCCC
AGGCCGGGAGGCCAGATGGGGGAACCCCGGGCTGGGGCCGCCCTGGACGATGGCAGCGGCTGGACGGGCAGTGA
GGAAGGCAGTGAGGAGGGTACCGGCGGCAGTGAGGGGGCTGGGGGTGACGGGGGGCCGGATGCAGAGGGGGTGTG
GAGCCCAGACATTGAGCAGAGCTTCCAGGAGGCCCTGGCCATCTATCCACCCTGCGGCCGCCGAAAAATAATTTT
GTCTGATGAAGGCAAGATGTATGGTTCGGAATGAACTGATCGCCCGCTACATCAAGCTGAGAACGGGGGAAGACCCG
AACTCGAAAACAGGTTTCTAGTCACATCCAGGTTTTGGCCCGAAGGAAATCAAGGGAAATCCAGTCCAAGTTGAA
GGACCAGGTTTCCAAGGACAAGGCTTTCAGACAATGGCAACCATGTCCTCTGCCCAGCTCATCTCCGCGCCTTC
TCTGCAGGCCAACTGGGTCCCACTGGTCCTCAGGCCTCTGAGCTTTTCCAGTTTTGGTCTGGAGGATCTGGGCC
CCCCTGGAATGTTCCAGATGTGAAGCCATTCTCACAGACACCGTTACCTTGTCACTGACTCCCCCATCTACTGA
CCTCCCAGGGTACGAGCCCCCCCCAAGCCCTCTACCCCTGCCCCACCTACCCCATCGCCCCAGCCTGGCAGGC
TCGGGGCCTGGGCACCGCCCGGTTGCAGCTGGTAGAGTTCTCAGCCTTCGTGGAACCGCCAGATGCAGTTGATTC
TTACCAGAGGCACCTGTTGTCGTCACATCAGCCAGCACTGCCCCAGCCCCGGAGCGCCGCCGCTCGAGAGTGTGGA
CGTCCGGCAGATCTACGACAAATCCCTGAGAAAAAGGGTGGCCTCCGAGAGCTATATGATCGTGGCCCCCCCCCA
TGCCTTCTTCTGGTCAAGTTCTGGGCGGACCTGAACTGGGGCCCAAGTGGTGAGGAGGCAGGGGCCGGTGGCAG
CATCAGCAGTGGTGGCTTCTACGGAGTGAGCAGCCAGTATGAGAGCCTGGAACACATGACCCTCACCTGTTCCCTC
CAAGGTCTGCTCTTTTGGCAAGCAGGTGGTGGAGAAGGTGGAGACGGAACGGGCCAGCTGGAGGACGGCAGATT
TGTGTACCGCCTGCTGCGCTCGCCCATGTGCGAGTACCTGGTGAATTTCTTGACAAAGTTGCGGCAGCTGCCTGA
GCGATACATGATGAACAGCGTCTTGAAAACTTACCATCCTCCAGGTGGTGACAAACAGAGACACCCAGGAACT
GCTGCTCTGCACCGCCTATGTCTTCGAGGTCTCCACCAGCGAGCGTGGGGCCAGCATCACATTTACCGCCTGGT
CAGGGACTGAAGGGGGACCCCAAACTGGCTCACCCCCAGAACACCCTCCTCCAGGGAGGGTCTCCAGCTCA
CCTCATGCTTCTTATTTGGGGAGAGGGCTGTGATGTAAAGGGTTGACCTCAGAGGCCTAAGCAACTGGGGCCAT
CCCCCCCATTAGAGGGGGCCCCCAAACTTGGTTGGAGAGCTGAACAGGCTGGGACTGAGGAAAGGATAAACCCCG
ATATTGGGACCTCACAGTGGGTGTCTGAAAGGACAGATCACTCCGAGTATCAGGGATTGTGGGGACAGGAGTGA
GACAACCCCCCAGGTACAGCACTGGCTTTTTCTTTTTCAGCCCTGACAGGCCACCCCCACTCCTCTGCATGTCTTG
GAGAGCGCTAGTTACACATTGGCTTGTCCCCCTTACTTTTTCCAGCCACCCCTCCCCCTGAAATTTCTGCCCCT
CTCTACCACCCCTCACTCCATGACCTGTGAGATCACAAAGTGAAGATGAACCCTTTCTGTGCAGGAGCAGAGCCAG
GTGGGGCCCTGGACATTTTTTTTTTTTTTAATATAACGAGATATTTATAAGTGGGTGCTAGGGTCTTGACTTTATC
TCCGCTGCACAAGCAGTGTGTTGAACTTTCTAATCTCATCCCTCTCCTAAGTGAGCCCTGAGCTAGACGGTTTCC
TTCTCCCTCTCAAAGTTTGTGTTTGTGTTCTGACAGAGGATAAAGCTATTTTACCAAAAAAAAAAAAAAAAAA
AA

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FIGURE 5557

MGEPRAGAALDDGSGWTGSEEGSEEGTGGSEGAGGDGGPDAGVWSPDIEQSFQEALAIYPPCGRRKIILSDEGK
MYGRNELIARYIKLRTGKTRTRKQVSSHQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQLISAPSLQAKL
GPTGPQASELFQFWSGGSGPPWNVPDVKPFSTPFTLSLTPPSTDLPGYEPPQALSPLPPPSPPPAWQARGLT
ARLQLVEFSAFVEPPDAVDSYQRHLFVHISQHCPSPGAPPLESVDVRQIYDKFPEKKGGLRELYDRGPPHAFFLV
KFWADLNWGPSGEEAGAGGSISSGGFYGVSSQYESLEHMTLTCSSKVCSTFGKQVVEKVETERAQLEDGRFVYRLL
RSPMCEYLVNFLHKLRLPERYMMNSVLENFTILQVVTNRDTQELLCTAYVFEVSTSERGAQHHIYRLVRD

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FIGURE 5558

GTTGGTGAGCATCATGGCAACCGTTACAGCCACAACCAAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCG
AATCGGTGCCCACTCCACATCCGGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCAT
GGTGGGTGAGCTGGCGGCACGGCGGGCGGCTGGCGTGGTGCTGGAGATGATCCGGGAAGGGAAGATTGCCGGTTCG
GGCAGTCCTTATTGCTGGCCAGCCGGGCACGGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCCCTGGGCCC
TGACACGCCATTACAGCCATCGCCGGCAGTGAAATCTTCTCCCTGGAGATGAGCAAGACCGAGGCGCTGACGCA
GGCCTTCCGGCGGTCCATCGGCGTTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGGGAGGTGGTGGAGATCCA
GATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGGCAAACCTGACCCCTCAAGACCACAGAGATGGAGACCAT
CTACGACCTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGTCCAGGCCGGGGACGTGATCACCATCGA
CAAGGCGACGGGCAAGATCTCCAAGCTGGGCGCTCCTTCACACGCGCCCGCGACTACGACGCTATGGGCTCCCA
GACCAAGTTCGTGCAGTGCCAGATGGGGAGCTCCAGAAACGCAAGGAGGTGGTGCACACCGTGTCCCTGCACGA
GATCGACGTCATCAACTCTCGCACCCAGGGCTTCCTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGA
AGTCCGTGAGCAGATCAATGCCAAGGTGGCTGAGTGGCGCGAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGCT
GTTATCGACGAGGTCCACATGCTGGACATCGAGAGCTTCTCCTTCTCAACCGGGCCCTGGAGAGTGACATGGC
GCCTGTCCTGATCATGGCCACCAACCGTGGCATCACGCGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCAT
CCCCATAGACCTGCTGGACCGGCTGCTTATCGTCTCCACCACCCCTACAGCGAGAAAGACACGAAGCAGATCCT
CCGCATCCGGTGCAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGCTGACCCGCATCGGGCTGGA
GACGTCACTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGGAACGCAAGGGGTACAGAAGT
GCAGGTGGATGACATCAAGCGGGTCTACTACTCTTCTGGACGAGTCCCGCTCCACGCAGTACATGAAGGAGTA
CCAGGACGCCTTCTTCAACGAACCTCAAAGGCGAGACCATGGACACCTCCTGAGTGGATGTCATCCCCCGAC
CCCACCTGTTTTCCACCAGAGTTCTGACACTGTGACTCTGTATAAAATGGTTGGGAAGCTGC

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FIGURE 5559

MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVGQLAARRAAGVVLEMIREGKIAGRAVLI
AGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEIIEGEVVEIQIDRP
ATGTGSKVGKLTCLKTTEMETIYDLGTMIESLTKDKVQAGDVITIDKATGKISKLGRSFTTRARDYDAMGSQTKFV
QCPDGELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREQINAKVAEWREEGKAEIIPGVLFIDE
VHMLDIESFSFLNRALES DMAPVLIMATNRGITRIRGTSYQSPHGIPIDLLDRLLIVSTTPYSEKDTKQILRIRC
EEEDVEMSEDAYTVLTRIGLETSLRYAIQLITAASLVCRKRKGTEVQVDDIKRVYSLFLDESIRSTQYMKEYQDAF
LFNELKGETMDTS

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FIGURE 5560

CGCTTCGGGGCAGGGGTGCGGTCTTGCAATAGGAAGCCGAGCGTCTTGCAAGCTTCCCGTCGGGCACCAGCTACT
CGGCCCCGCACCTTACCTGGTGCAATCCCTAGACACCTCCGGGGTCCCTACCTGGAGATCCCCGGAGCCCCCTT
CCTGCGCCAGCCATGCCTTTAAACCGCACCTTTGTCCATGTCTCACTGCCAGGACTGGAGGACTGGGAGGATGAA
TTTCGACCTGGAGAACGCAGTGCTCTTCGAAGTGGCCTGGGAGGTGGCTAACAAGGTGGGTGGCATCTACACGGTG
CTGCAGACGAAGGCGAAGGTGACAGGGGACGAATGGGGCGACAACCTACTTCTGGTGGGGCCGTACACGGAGCAG
GGCGTGAGGACCCAGGTGGAAGTGTGGAGGCCCCACCCGGCCCTGAAGAGGACACTGGATTCCATGAACAGC
AAGGGCTGCAAGGTGTATTTTCGGGCGCTGGCTGATCGAGGGAGGCCCTCTGGTGGTGCTCCTGGACGTGGGTGCC
TCAGCTTGGGGCCCTGGAGCGCTGGAAGGGAGAGCTCTGGGATACCTGCAACATCGGAGTGCCGTGGTACGACCGC
GAGGCCAACGACGCTGTCTCTTTGGCTTTCTGACCACCTGGTTCTGGGTGAGTTCTGGCACAGAGTGAGGAG
AAGCCACATGTGGTTGCTCACTTCCATGAGTGGTTGGCAGGCGTTGGACTCTGCCTGTGTCTGTCGCCGGCGACTG
CCTGTAGCAACCATCTTCACCACCCATGCCACGCTGTGGGGCGCTACCTGTGTGCCGGTGCCGTGGACTTCTAC
AACAACCTGGAGAAGCTTCAACGTGGACAAGGAAGCAGGGGAGAGGCAGATCTACCACCGATACTGCATGGAAAGG
GCGGCAGCCCACTGCGCTCACGTCTTCACTACTGTGTCCCAGATCACCGCCATCGAGGCACAGCACCTTGCTCAAG
AGGAAACCAGATATTGTGACCCCCAATGGGCTGAATGTGAAGAAGTTTTCTGCCATGCATGAGTTCCAGAACCCTC
CATGCTCAGAGCAAGGCTCGAATCCAGGAGTTTGTGCGGGGCCATTTTTATGGGCATCTGGACTTCAACTTGGAC
AAGACCTTATACTTCTTTATCGCCGGCCGCTATGAGTTCTCCAACAAGGGTGCTGACGTCTTCTCGAGGCAATTG
GCTCGGCTCAACTATCTGCTCAGAGTGAACGGCAGCGAGCAGACAGTGGTTGCCCTTCTTCATCATGCCAGCGCGG
ACCAACAATTTCAACGTGGAAACCCCTCAAAGGCCAAGCTGTGCGCAAACAGCTTTGGGACACGGCCAACACGGTG
AAGGAAAAGTTCGGGAGGAAGCTTTATGAATCCTTACTGGTTGGGAGCCTTCCCGACATGAACAAGATGCTGGAT
AAGGAAGACTTCACTATGATGAAGAGAGCCATCTTTGCAACGCAGCGGCAGTCTTCCCCCTGTGTGCACCCAC
AATATGCTGGATGACTCCTCAGACCCCATCCTGACCACCATCCGCCGAATCGGCCTCTTCAATAGCAGTGCCGAC
AGGGTGAAGGTGATTTTTCCACCCGGAGTTCTCTCCTCCACAAGCCCCCTGCTCCCTGTGGACTATGAGGAGTTT
GTCCGTGGCTGTACACTTGGAGTCTTCCCCCTCCTACTATGAGCCTTGGGGCTACACACCGGCTGAGTGCACGGTT
ATGGGAATCCCCAGTATCTCCACCAATCTCTCCGGCTTCGGCTGCTTCATGGAGGAACACATCGCAGACCCCTCA
GCTTACGGTATCTACATTCTTGACCGCGGTTCCGCAGCCTGGATGATTCTGCTCGCAGCTCACCTCCTTCCTC
TACAGTTTCTGTACAGCAGAGCCGGCGGCAGCGTATCATCCAGCGGAACCGCACGGAGCGCCTCTCCGACCTTCTG
GACTGGAAATACCTAGGCCGCTACTATATGTCTGCGCGCCACATGGCGCTGTCCAAGGCCCTTCCAGAGCACTTC
ACCTACGAGCCCAACGAGGCGGATGCAGGCCCAGGGGTACCGCTACCCACGGCCAGCCTCGGTGCCACCGTCGCC
CTCGCTGTACGACACTCCAGCCCGCACCAGAGTGAGGACGAGGAGGATCCCCGGAACGGGCCGCTGGAGGAAGA
CGGCGAGCGCTACGATGAGGACGAGGAGGCCCAAGGACCGGCGCAACATCCGTGCACCAGAGTGGCCGCGCCG
AGCGTCTGCACCTCCTCCACCAGCGGCAGCAAGCGCAACTCTGTGGACACGGCCACCTCCAGCTCACTCAGCAC
CCCGAGCGAGCCCCCTCAGCCCCACCAGTCCCTGGGCGAGGAGCGTAACCTAAGTCCGCCCCACCACACTCCCCGC
CTGTCTGCTCTCTGCTCCAGAGAGGATGCAGAGGGGTGCTGCTCCTAAACCCCCGCTCCAGATCTGCACTG
GGTGTGGCCCCGAGTGCCCCCACCAGTCCGCCAAACACTCCACCCCTCCAGCTCCAGTTTCCAAGTTCTGCTG
ACTCCAGAATCCACAAAGCCGTGCCCTTCTCTGGCTCCAGAATATGCATAATCAGCGCCCTGGAGTCCCCTGGGC
CTGGACCGCTTCCAGAGGCCAGGAATCTGCCATTACTCTGCGGTGGTGCCAGAGGTTTTAGGAAACCTGGCATG
GTGCTTTTCAGGTCTGGGGCTTTTAGAGCCCCCGTGTGGCTTACAAATTCTACAGCATACAGAGCAGGCCACGCT
CAGGCCCGGCATGCGGGCCACCAAGTTCTGGAAACCAGTGGTGTCCCTGCGAATGGGGCGATCAAGTCCAGAGC
CGGGGCACTTTCAGAGTTTGAAGGTAAGTGAAGACAGATGGTCTCCATTTCAACTCCAGAAGTGGGGCTCTGGG
AGGGATGTTCTAGCCCTCCCTGGCATGTCTAGAGCCAGGCTCTGCCTGGAGGATCCCTCCATCCGGCTCCTGTCT
CCCCTACACTTTGGCCAAGCAAGAGGTGGTAGAACCACTTGGCTGCTCATTCTCTTCTGGAGGACACACAGTCTCA
GTCCAGATGCCTTCTGTCTTTCTGGCCCTTTCTGGACCAGATCCTACTCTTCTCTTCTAAATCTGAGATCTCCC
TCCAGGGAATCCGCTGCAGAGGACAGAGCTGGCTGTCTTCCCCACCCCTAACCTGGCTTATTCCCAACTGCTC
TGCCCACTGTGAAACCACTAGGTTCTAGGTCCTGGCTTCTAGATCTGGAACCTTACCACGTTACTGCATACTGAT
CCCTTTCCCATGATCCAGAACTGAGGTCACTGGGTCTAGAACCCCCACATTTACCTCGAGGCTCTTCCATCCCC
AAACTGTGCCCTGCCTTCAGCTTTGGTGAAGGGAGGGCCCCCTCATGTGTGCTGTGCTGTGTCTGCACCGCTTGG
TTTGCAGTTGAGAGGGGAGGGCAGGAGGGGTGTGATTGGAGTGTGTCCGGAGATGAGATGAAAAAATACATCTA
TATTTAAG

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FIGURE 5561

MPLNRTLMSSSLPGLEDWEDEFDLENVLF EVAWEVANKVGGIYTVLQTKAKVTGDEWGDNYFLVGPYTEQGVRT
QVELLEAPTPALKRTLDSMNSKGCKVYFGRWLIIEGGPLVVLDDVGASAWALERWKGELWDTGNIGVPWYDREAND
AVLFGFLT TWFLG EFLAQSEEKPHVVAHFHEWLAGVGLCLCRARRLPVATIFTTHATLLGRYLCAGAVDFYNNLE
NFNVDKEAGERQIYHRYCMERAAAHCAHVFTTVSQITAIEAQHLLKRKPDIVTPNGLNVKKFSAMHEFQNLHAQS
KARIQEFVRGHFYGHLDNFNDKTLYFFIAGRYEFSNKGADVFLAALARLNYLLRVNGSEQTVVAFFIMPARTNNF
NVETLKGQAVRKQLWDTANTVKEKFGRKLYESLLVGSLPDMNKMLDKEDFTMMKRAIFATQSQSFPPVCTHNMLD
DSSDPILTTIRRIGLFNSSADRVKVIHFPEFLSSTSPLLPVDYEEFVRGCHLGVFPSYYPWGYTPAECTVMGIP
SISTNLSGFGCFMEEHIADPSAYGIYILDRRFRSLDDSCSQLTSFLYSFCQQSRRQRIIQNRNTERLSDLLDWKY
LGRYYMSARHMALSKAFPEHFTYEPNEADAGPGVPLPTASLGATVALAVTTLQPAPE

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FIGURE 5562

GTCCCGCGGGTCTGTCTCTTGCTTCAACAGTGTTTGGACGGAAACAGATCCGGGGACTCTCTTCCAGCCTCCGACC
GCCCTCCGATTTCTCTCCGCTTGCAACCTCCGGGACCATCTTCTCGGCCATCTCCTGCTTCTGGGACCTGCCAG
CACCGTTTTTGTGGTTAGCTCCTTCTTGCCAACCAACCAATGAGCTCCCAGATTTCGTCAGAATTATTCCACCGACG
TGGAGGCAGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATT
TCGACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCT
ACGAGCGTCTCCTGAAGATGCAAAACCAGCGTGGCGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAG
ATGAGTGGGGTAAAACCCAGACGCCATGAAAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCCCTTTTGG
ATCTTCATGCCCTGGGTTCTGCCCCGACGGACCCCCATCTCTGTGACTTCTGGAGACTCACTTCCTAGATGAGG
AAGTGAAGCTTATCAAGAAGATGGGTGACCACCTGACCAACCTCCACAGGCTGGGTGGCCCGGAGGCTGGGCTGG
GCGAGTATCTCTTCGAAAGGCTCACTCTCAAGCACGACTAAGAGCCTTCTGAGCCCAGCGACTTCTGAAGGGCCC
CTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTTCTTAACTATCCTAACAAG
CCTTGACCAAATGGAATAAAGCTTTTTGATGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5563

MSSQIRQNYSTDVEAAVNSLVNLYLQASYTYLSLGFYFDRDDVALEGVSHFFRELAEKREGYERLLKMQNQRGG
RALFQDIKKPAEDEWGKTPDAMKAAMALEKKLNQALLDLHALGSARTDPHLCDFLETHFLDEEVKLIKMGDHLT
NLHRLGGPEAGLGEYLFERLTLKHD

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FIGURE 5564

GCTGCGGCCGCCCCGCGCGGACCCGGCGAGAGGCGGCGGGAGCGGCGGTGATGGACGGGTCCGGGGAGCAGCC
CAGAGGCGGGGGGGCCCACCAGCTCTGAGCAGATCATGAAGACAGGGGCCCTTTTGCTTCAGGGTTTCATCCAGGA
TCGAGCAGGGCGAATGGGGGGGGAGGCACCCGAGCTGGCCCTGGACCCGGTGCCTCAGGATGCGTCCACCAAGAA
GCTGAGCGAGTGTCTCAAGCGCATCGGGGACGAACCTGGACAGTAACATGGAGCTGCAGAGGATGATTGCCGCCGT
GGACACAGACTCCCCCGAGAGGTCTTTTTCCGAGTGGCAGCTGACATGTTTTCTGACGGCAACTTCAACTGGGG
CCGGGTGTGCGCCCTTTTCTACTTTGCCAGCAAACCTGGTGCTCAAGGCCCTGTGCACCAAGGTGCCGGAACATGAT
CAGAACCATCATGGGCTGGACATTGGACTTCCTCCGGGAGCGGCTGTTGGGCTGGATCCAAGACCAGGGTGTTG
GGTGAGACTCCTCAAGCCTCCTCACCCCCACCACCGCGCCCTCACCACCGCCCCTGCCCCACCGTCCCTGCCCC
CGCCACTCCTCTGGGACCCTGGGCCTTCTGGAGCAGGTCACAGTGGTGCCCTCTCCCCATCTTCAGATCATCAGA
TGTGGTCTATAATGCGTTTTCTTTACGTGTCTTGATCAATCCCCGATTCATCTACCCTGCTGACCTCCAGTGACC
CCTGACCTCACTGTGACCTTGACTTGATTAGTGCCTTCTGCCCTCCCTGGAGCCTCCACTGCCTCTGGAATTGCT
CAAGTTCATTGATGACCCTCTGACCCTAGCTCTTTCTTTTTTTTTTTT

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FIGURE 5565

MDGSGEQPRGGGPTSSSEQIMKTGALLLQGF IQDRAGRMGGEAPELALDPVPQDASTKKLSECLKRIGDEELDSNME
LQRMIAAVDTDSPREVFFRVAADMFS DGNFNWGRVVALFYFASKLVLKALCTKVPELIRTIMGWTLDFLRERLLG
WIQDQGGWVRLKPPHPHHRALTTAPAPPSLPPATPLGPWAFWSRSQWCPLPIFRSSDVVYNAFSLRV

[illegible]

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FIGURE 5567

MPPSGPRGTL L L L L L P L L L L L L L R A V L A V P L E R G A P N K E E T P A T E S P D T G L Y Y H R Y L Q E V I D V L E T D G H F R E K L Q A A
N A E D I K S G K L S R E L D F V S H H V R T K L D E L K R Q E V S R L R M L L K A K M D A E Q D P N V Q V D H L N L L K Q F E H L D P Q N Q H T F E
A R D L E L L I Q T A T R D L A Q Y D A A H H E E F K R Y E M L K E H E R R R Y L E S L G E E Q R K E A E R K L E E Q Q R R H R E H P K V N V P G S Q
A Q L K E V W E E L D G L D P N R F N P K T F F I L H D I N S D G V L D E Q E L E A L F T K E L E K V Y D P K N E E D D M R E M E E E R L R M R E H V
M K N V D T N Q D R L V T L E E F L A S T Q R K E F G D T G E G W E T V E M H P A Y T E E L R R F E E L A A R E A E L N A K A Q R L S Q E T E A L
G R S Q G R L E A Q K R E L Q Q A V L H M E Q R K Q Q Q Q Q Q G H K A P A A H P E G Q L K F H P D T D D V P V P A P A G D Q K E V D T S E K K L L E
R L P E V E V P Q H L

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FIGURE 5568

ATGGCCGCAGCCGCTCTGGGGCAGATCTGGGCACGAAAGCTTCTCTCTGTCCCTTGGCTTCTGTGTGGTCCCAGA
AGATATGCCTCCTCCAGTTTCAAGGCTGCAGACCTGCAGCTGGAAATGACACAGAAGCCTCATAAGAAGCCTGGC
CCCGGCGAGCCCCCTGGTGTTTGGGAAGACATTTACCGACCACATGCTGATGGTGGAATGGAATGACAAGGGCTGG
GGCCAGCCCCGAATCCAGCCCTTCCAGAACCTCACGCTGCACCCAGCCTCCTCCAGCCTCCACTACTCCCTGCAG
CTGTTTGAGGGCATGAAGGCGTTCAAAGGCAAAGACCAGCAGGTGCGCCTCTTCCGCCCCCTGGCTCAACATGGAC
CGGATGCTGCGCTCAGCCATGCGCCTGTGCCTGCCGAGTTTCGACAAGCTGGAGTTGCTGGAGTGCATCCGCCGG
CTCATCGAAGTGGACAAGGACTGGGTCCCCGATGCCGCCGGCACCAGCCTCTATGTGCGGCCTGTGCTCATTGGG
AACGAGCCCTCGCTGGGTGTGAGCCAGCCCAGGCGCGCGCTCCTGTTCGTCATTCTCTGCCAGTGGGTGCCTAC
TTCCCTGGAGGCTCCGTGACCCCGGTCTCCCTCCTGGCCGACCCAGCCTTCATCCGGGCCTGGGTGGGCGGGGTC
GGCAACTACAAGTTAGGTGGGAATTATGGGCCCACCGTGTTAGTGCAACAGGAGGCACTCAAGCGGGGCTGTGAA
CAGGTCTCTGGCTGTATGGGCCCCGACCACCAGCTCACCGAGGTGGGAACCATGAACATCTTTGTCTACTGGACC
CACGAAGATGGGGTGTGAGGCTGGTGACGCCCCCGCTGAATGGTGTTATCCTGCCTGGAGTGGTCAGACAGAGT
CTACTGGACATGGCTCAGACCTGGGGTGAGTTCCGGGTGGTGGAGCGCACGATCACCATGAAGCAGTTGCTGCGG
GCCTTGGAGGAGGGCCGCGTGCGGGAAGTCTTTGGCTCGGGCACCAGCTTGCCAGGTCTGCCAGTGCACCGAATC
CTGTACAAAGACAGGAACCTCCATATTCCCACCATGGAAAATGGGCCTGAGCTGATCCTCCGCTTCCAGAAGGAG
CTGAAGGAGATCCAGTACGGAATCAGAGCCCACGAGTGGATGTTCCCGGTGTGAAGCTGCAGGCTGTGCTCCAGA
TCCACCGACCCGTAGCATCTCGTCACGCCAGCACTCGCCTCCCTACCAATGACTCACCTGAAGTGCAATACGAAA
TAAAAGGCCAGCGGGCGGCGTCTGGGTCTCTGGCGCCCCCATGTGGTTGCGACACTCCCAAAGCCGTAAGGGCCG
ACCCAGGCATCTTGGCCCCCAGCCCCTCGTCGCGGGTTCAGGTCCGCCCATTAATCTCTTGTGCTGCGGTCAAGGA
TACACCTTGGCCCCGATTCCGGATCTCTCCGTTCTCAGGCCAGACCCCTGGTGCTGCCGTTGATTTTTTTTTTCTC
TGTCTTTGCTGCAATTTTGAATAAAATGCCAAAGAACACAAAAAA

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FIGURE 5569

MAAAALGQIWARKLLSVPWLLCGPRRYASSSFKAADLQLEMTQKPHKKPGPGGEPLVFGKTFTDHMLMVEWNDKGW
GQPRIQPFQNLTLHPASSSLHYSLQLFEGMKAFKQKDDQVRLFRPWLNMDRMLRSAMRLCLPSFDKLELLECIRR
LIEVDKDWVPDAAGTSLYVRPVLIGNEPSLGVSQPRRALLFVILCPVGAYFFPGGSVTPVSLLADPAFIRAWVGGV
GNYKLGGNYGPTVLVQQEALKRGCEQVLWLYGPDHQLTEVGTMNIFVYWTHEDGVLELVTPPLNGVILPGVVRS
LLDMAQTWGEFRVVERTITMKQLLRAL EEGRVREVFSGTACQVCPVHRILYKDRNLHIPTMENGPELILRFQKE
LKEIQYGIRAH EWMFPV

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FIGURE 5570

TCTGCTCTGAGCCCCGCCCAGCCCAGAAACCCCACTAGCCTGGGGCCTGAGAACAGCCACGCCACTCCCTCCTG
AGAGCCCACCGCGCCACAGCTTGGAGGAAGAGCCTGCGGGGAAGTGGCTGCAGGACGCTCTCTTCTTGAGTGCAG
GTGCTGGCTCTGCTGTGACCATGCCCCGTGACCTTTGCCCTCCTGCTCCTCCTGGGCCAGGCCACTGCGGACCCAT
GCTACGATCCACAGGGCCGCCCCAATTCTGCCTCCCGCCAGTGACACAGCTGGCTGCCGTGGCGGCCCTCCTGCC
CTCAGGCCTGTGCCCTGTCCCCAGGAAACCACCTTGGCGCCAGGGAAACCTGCAATGGCAGCCTGACTTTGGCCC
TGGGTGGCCCCCTTCTCCTGACATCTGTCTAGCTTGCCTTCTGTACCCAGGACCCCCAGCCCTCATCCTGTCTG
CTGCCTGGGCCTCAGGGGGTCCCTGGAGGCTGCTGTGGCACAGGCCCGCCTGGCCTGGGGCCTTAGGGGGCCCTG
AAAGGGTGACCTTCCACTCCACACCAGGTCCTAAGGCCACTGTGGCGGCCAGCCACCTCCGTGTGGAGTTTGGGG
GCCAGGCCGGGCTAGCGGCAGCTGGGCTGAGAGGCCGCTGCCAGTGTATGGCCACGCTGCCCCGCTGTGCCGCC
GTGCCCCGGCCCCCGCTGCCACTGCCGCCACCATACTACTGGCCCCGGGTGCGAGAGCTGCCGCCCGTCCCCATC
GAGACTGGCCCTGGCGGCCTGCCACGCCCCGGCACCCCCACCCTTGCTTACCCTGCTCCTGCAACCAGCACGCC
GACGCTGCCGGTTCAACTCTGAGCTGTTTCACTGTCTGGCGGCCCGGAGTGGGGGTGTTTGTGAGCGGTGCCGCC
ACCACACAGCTGGGGGGCACTGCCACTACTGCCAACCTGGGTCTTGAGGGACCCTAGCCAGCCTATCTTCAGCC
GCAGGGCCTGCAGAGCCTGCCAGTGCCACCCTATTGGGGCAACAGGAGGAACCTGCAACCAGACCAGTGGGCAGT
GCACCTGCAAGTTAGGGGTACAGGCCTGACCTGCAACCGCTGTGGCCCTGGCTACCAGCAGAGCCGCTCCCCCA
GGATGCCCTGCCAGCGAATTCCAGAGGCAACAACCACCCTTGCCACTACTCCTGGTGCTTATAGCTCTGACCCTC
AGTGTCAAACTACTGCAATATGTCTGGACACCAGGGTACACATGAGCCTTCGGAGGTACTGCCAGCAGGACCATG
TTCTCCGCGCGCAGGTGCTAGCGTCCGAGGCGGCGGGCCCGGCATGGCAGCGGCTGGCCGTGCGCGTCTGGCCG
TTTACAAGCAGCGGGCGCAGCCCGTGCGACGCGGCGACCAGGACGCCTGGGTGCCCCGCGCCGACCTGACCTGCG
GCTGCCTGCGCCTGCAGCCAGGCACCGACTACCTGCTGCTGGGCAGCGCCGTGGGCGACCCCGACCCACGCGCC
TCATCCTCGACCGCCACGGCCTCGCGCTGCCATGGAGGCCGCGCTGGGCCCCGCCCCCTGAAGCGGCTGCAGCAGG
AGGAGCGCGCCGGAGGCTGCCGCGGCGTGCGGGCACCCACACCCAGTCCCAGGCCGGAGCACTAGACGTGAGATG
GGGCTGCCTCGAGACCAACAAAGTAATTTGGGAGCGACTAGGAGCTGAGCCTTCTACCTCGACGGTGCAGTGA
GAGAGCCAATCAGACGTGCGAGAGCCCCGACGACACTATGCTTGCGCCACGCCGAGCAGGCGTGCAGAACTTTT
AGCAAAAGGCGGCAAGCGGGACTTCTGGTCCCCAACATTTCTCCTTTGGCCTGTGGCTTATTCCCCGCCAGTGAT
CTGTTTCCCCCAATAAAGTCTCAAATCTTTGGG

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FIGURE 5571

CTTTCCGGACCTGGCCGAGCAGGAGGCGCCATCATGGGAGTGGACATCCGCCATAACAAGGACCGAAAGGTTTCGG
CGCAAGGAGCCCAAGAGCCAGGATATCTACCTGAGGCTGTTGGTCAAGTTATACAGGTTTCTGGCCAGAAGAACC
AACTCCACATTCAACCAGGTTGTGTTGAAGAGGTTGTTTATGAGTCGCACCAACCGGCCGCCTCTGTCCCTTTCC
CGGATGATCCGGAAGATGAAGCTTCCTGGCCGGGAAAACAAGACGGCCGTGGTTGTGGGGACCATAAACTGATGAT
GTGCGGGTTCAGGAGGTACCCAAACTGAAGGTATGTGCACTGCGCGTGACCAGCCGGGCCCCGAGCCGCATCCTC
AGGGCAGGGGGCAAGATCCTCACTTTCGACCAGCTGGCCCTGGACTCCCCTAAGGGCTGTGGCACTGTCCTGCTC
TCCGGTCCTCGCAAGGGCCGAGAGGTGTACCGGCATTTGCGCAAGGCCCCAGGAACCCCGCACAGCCACACCAA
CCCTACGTCCGCTCCAAGGGCCGGAAGTTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAACTTAA
CCCTGGATCCTACTCTCTTATTAAAAAGATTTTGTCTGACAAAAAAA

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FIGURE 5572

MGVDIRHNKDRKVRKEPKSQDIYLRLLVKLYRFLARRTNSTFNQVVLKRLFMSRTNRPPLSLSRMIRKMKLPGR
ENKTAVVVGTTTDDVRVQEVPKLKVCALRVTSRARSRI LRAGGKILTFDQLALDSPKGCCTVLLSGPRKGREVR
HFGKAPGTPHSHTKPYVR SKGRKFERARGRRASRGYKN

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FIGURE 5573

CTGCAGGGCCAGGCCTGGCCACACTTGGGCTGCTTCTCCTATCCCTCGTACCAGCCAGCCCCAGGCCTTCTGGAA
CTCTCAGCTGCCTCATCCTGCCTGCTTTTCCCTTCAACACTGCTTGGAGCTGTGTTTTCCAGGGCCTGAGCAGGC
'ATCTCCTGGGGAGCATGCAGTTCACCGGCCTTTGCCAGCCCAGGCTGGGACCCCTCCAGGTGGTGGGGCAGGTGCT
TCCATAGCCCCTCCTGGCTCCTTGGCTTCCCCTCCCTCCTCTCCCCACAGACCCTACGTCCGCTCCAAGGGCCG
GAAGTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAACTAACCCTGGATCCTACTCTCTTATTA
AAAAGATTTTTGCTGAC

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FIGURE 5574

GGCACGAGGGTTTCGAAGATGGCGGCGCGCAAGGGTCGGCGTCGCACGTGTGAAACCGGGGAACCCATGGAAGCCG
AGTCCGGCGACACAAGTTCCGAGGGCCCCGGCCAGGTCTACCTGCCCGCCGGGGGCCCGCTACGCGAAGGGG
AGGAGCTGGTTCATGGACGAGGAGGCCTATGTGCTCTACCACCGAGCGCAGACTGGCGCCCCCTGTCTCAGCTTTG
ACATAGTCCGGGATCACCTGGGAGACAACCGGACAGAGCTTCCTCTTACACTTTACTTGTGTGCTGGGACCCAGG
CTGAGAGCGCCAGAGCAACAGACTGATGATGCTTCGGATGCACAATCTGCATGGGACAAAGCCCCACCCTCAG
AGGGCAGTGATGAAGAAGAAGAGGAGGAAGATGAAGAGGATGAAGAAGAGCGGAAACCTCAGCTGGAGCTGGCCA
TGGTGCCCCACTATGGTGGCATCAACCGAGTTCGGGTGTCTGCTGGCTGGGTGAAGAGCCTGTGGCTGGGGTGTGGT
CAGAGAAGGGCCAGGTGGAGGTGTTTGCCTGCGGCGGCTTCTGCAGGTGGTGGAGGAGCCCCAGGCCCTGGCAG
CCTTCCTCCGGGATGAGCAGGCCCAAATGAAGCCCATCTTCTCCTTCGCTGGACACATGGGCGAGGGCTTTGCC
TTGACTGGTCCCCCGGGTGACCGGTGCGCTGCTGACCGGTGACTGTCAAAAAGAACATCCACCTCTGGACACCTA
CGGACGGCGGCTCCTGGCACGTGGACCAGCGGCCATTCTGGGGCCACACACGCTCTGTGGAGGACCTGCAGTGGT
CACCGACTGAGAACACGGTGTGCTCCTGCTCAGCTGACGCTCCATCCGCATCTGGGACATCCGGGCAGCCC
CCAGCAAGGCCTGCATGCTCACCACAGCCACCGCCCATGATGGGGACGTCAATGTCATCAGCTGGAGCCGCCGGG
AGCCCTTCTGCTCAGTGGCGGGGATGATGGGGCCCTCAAGATCTGGGACCTTCGGCAGTTCAAGTCTGGTTCCC
CAGTGGCCACCTTCAAGCAGCACGTGGCCCCCGTGACCTCCGTGAGTGGCACCCCCAGGACAGCGGGGTCTTTG
CAGCCTCGGGTGCAGACCACCAGATCACACAGTGGGACCTGGCAGTGGAGCGGGACCCTGAGGCGGGCGACGTGG
AGGCCGACCCCGGACTGGCCGACCTCCCGCAGCAGCTGCTGTTTCGTGCACACAGGGCGAGACCGAGCTGAAGGAGC
TGCACTGGCACCCGCGAGTGCCAGGGCTCCTGGTCAGCACGGCGCTGTCAGGCTTCACCATCTCCGCACCATCA
GCGTCTGAGGCGTCCCACTGGCTCTGATCTTGCTTCCTGCTTGGAAGTGAAGTGAATGGGCTCCCCTGGAAG
GGGTTTATTAGGTCTGTTGACTGAGACTGGCCGGCCTGTGGGCTGCCGTGATGGATTCTGTTTGACGTATTGTT
CTCTAGAAGGCCTGGCTCTGATCCAGTGACCCCTCTCACAAAGAACTCGGTTTAACCAGGGCTCTGTAAGACCA
CTCCACCCAGAGACTTGTGTGGCCTGGTGTGGCCTGTGTGTCGGATTCTTCTCTCAGCTGTGACCCATTGTA
CCTGTGTCCCCAGAACCAGTTTTTTGTTTGTGTTTGTGTTGAGACGGAGTCTTGGTCTGTGCGCCAGGCTGGAGTGC
AGTAGCACGATCTTGGCTCACTGCAACCTCCGCCTCCTGGGTTAAAGTGATTCTCTCAGCTCAGTCTCCAGGTA
GCTGGGATTACAGGCATGTGCCACCACACCCCGTTAATTTTTGTATTTTAGTAGAGACGGGGTTTACCATGTT
GGCCAGGCTGGTCTCAAATCTTGATCTCAAGTGATCTGTCCGCCCGGCCTCCAGAGTGCTGGGTGGGATTA
CAGGCGTGAGCCACCGCTCCGGCTCAGGACCCAGTTTTGGCTGCTGGTTCAGCAGGGGACTCGGGGGATATA
CAGTGGCTGCACCAAATGGAGGTGTGGGTTCCTCAACACAATTTGCTTCTGCCCCTTGTCTTCCCTGCCAGCTG
GGTTTGGCCAGGATTTCTCCGTGTGGGGCTACATGCGACCTCTCCCCTCCTCCCTGACTTTAGAGGCTGGTGC
TGTGTCGGGAGGAAGGTCAGGGCTCCTGAGCAGCAATAAAGGACCAGGAAGAGGCCTGAGGTGTAACAAAAAAA
AAAAAAAAAAAA

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FIGURE 5575

MAARKGRRRTCETGEPMEAESGDTSSSEGPAQVYLPGRGPPLREGEELVMDEEAYVLYHRAQTGAPCLSFDIVRDH
LGDNRTEPLTLTYLCAGTQAESAQSNRLMMLRMHNLHGTPPPSEGSDEEEEEDEEDEERKPQLELAMVPHYG
GINRVRVSWLGEEPVAGVWSEKGQVEVFALRRLQVVEEPQALAAFLRDEQAQMKPIFSFAGHMGEFALDWSPR
VTGRLLTGDCQKNIHLWTPDGGSWHVDQRPFVGHTRSVEDLQWSPTENTVFASCSADASIRIWDIRAAPSKACM
LTTATAHDGDVNVISWSRREPFLLSGGDDGALKIWDLRQFKSGSPVATFKQHVAPVTSVEWHPQDSGVFAASGAD
HQITQWDLAVERDPEAGDVEADPGLADLPQQLLFVHQGETELKELHWHWPQCPGLLVSTALSGFTIFRTISV

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FIGURE 5576

CTAAAGGTCCCCTCCCCGGAGCGGAGCGCACCTAGGGTCCCTCTTCCGTCCCCCAGCCCAGCTACCCGTTTCAGA
CCAGCAGCCTCGGGGGGCACCCCCCGCCAGCCTGCCTCCCTCCCGCTCAGCCCTGCCAGGGTTCCCAGCCATGA
ATCTCTTCCGATTCTGAGACCTCTCCACCTCCTCGCCATCATCTTGCTACTGCTCAAAATCTGGAAGTCCC
GCTCGTGCGCCGGAATTTAGGGAAGAGCCAGGTCTGTTTGCTGTGGTGTTCACTGCCCAGATATCTGGACCTCT
TCACCAACTACATCTCACTCTACAACACGTGTATGAAGGTGGTCTACATAGCCTGCTCCTTCACCACGGTCTGGT
TGATTTATAGCAAGTTCAAAGCTACTTACGATGGGAACCATGACACGTTTACAGAGTGGAGTTCCTGGTCGTTCCCA
CAGCCATTCTGGCGTTTCTGGTCAATCATGACTTCACCCCTCTGGAGATCCTCTGGACCTTCTCCATCTACCTGG
AGTCAGTGGCCATCTTGCCGAGCTGTTTCATGGTGAGCAAGACCGGCGAGGCGGAGACCATCACCAGCCACTACT
TGTTTGCGCTAGGCGTTTACCGCACGCTCTATCTCTTCAACTGGATCTGGCGCTACCATTTCGAGGGCTTCTTCG
ACCTCATCGCCATTGTGGCAGGCCTGGTCCAGACAGTCCTCTACTGCGATTTCTTCTACCTCTATATCACCAAAG
TCCTAAAGGGGAAGAAGTTGAGTTTGCCGGCATAGCCCCGGTCTCTCCATCTCTCTCCTCGGCAGCAGCGGGAG
GCAGAGGAAGGCGGCAGAAAGATGAAGAGCTTTCCCATCCAGGGGTGACTTTTTTAAGAACCCACCTCTTGCTGCTC
CCCATCCCGCTCCTGCCGGGTTTCAGGGGGACAGTGGAGGATCCAGGTCTTGGGGAGCTCAGGACTTGGGCTGT
TTGTAGTTTTTTGCCTTTTAGACAAGAAAAAAAATCTTCCACTCTTTAGTTTTTGATTCTGATGACTCGTTTT
TTCTTCTACTCTGTGGCCCCAAATTTTATAAAGTGA

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FIGURE 5577

MNLFREFLGDLSHLLAIILLKKIWKSRSCAGISGKSQVLFAVVFTARYLDLFTNYISLYNTCMKVVIACSF_{TTV}
WLIYSKF_{KATYDGNHDTFRVEFLVVPTAILAFLVNHDFTPLEILWTF}SIYLESVAILPQLFMVSKTGEAETITSH
YLFALGVYRTLYLFNWIWRYHFEGFFDLIAIVAGLVQTVLYCDFFYLYITKVLKGKKLSLPA

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FIGURE 5578

AAGAAGTGGCGAAGTTACTTTTGAGGGTATTTGAGTAGCGGCGGTGTGTCAGGGGCTAAAGAGGAGGACGAAGAA
AAGCAGAGCAAGGGAACCCAGGGCAACAGGAGTAGTTCACTCCGCGAGAGGCCGTCCACGAGACCCCCGCGCGCA
GCCATGAGCCCCGCCCCCGCTGTTGCTTGAGAGAGGGGCGGGACCTGGAGAGAGGCTGCTCCGTGACCCCAACAT
GTCCTCTCTACCACGAGTTCCCTGGATACCCCTGCCTGGAAATGGCCCCCTCAGCCTGGCGCCCCCTTCTTC
TTCACCCACTGTAAAGGAGGAGGGTCCGGAGCCGTGGCCCGGGGGTCCGGACCCTGATGTCCCAGGCACTGATGA
GGCCAGCTCAGCCTGCAGCACAGACTGGGTCATCCCAGATCCCGAAGAGGAACCAGAGCGCAAGCGAAAGAAGGG
CCCAGCCCCGAAGATGCTGGGCCACGAGCTTTGCCGTGTCTGTGGGGACAAGGCCTCCGGCTTCCACTACAACGT
GCTCAGCTGCGAAGGCTGCAAGGGCTTCTTCCGGCGCAGTGTGGTCCGTGGTGGGGCCAGGCGCTATGCCTGCCG
GGGTGGCGGAACCTGCCAGATGGACGCTTTCATGCGGCGCAAGTGCCAGCAGTGCCGGCTGCGCAAGTGCAAGGA
GGCAGGGATGAGGGAGCAGTGCGTCCTTTCTGAAGAACAGATCCGGAAGAAGAAGATTTCGAAAACAGCAGCAGGA
GTCACAGTCACAGTCGAGTCACCTGTGGGGCCGAGGGCAGCAGCAGCTCAGCCTCTGGGCCTGGGGCTTCCCC
TGGTGGATCTGAGGCAGGCAGCCAGGGCTCCGGGGAAGGCGAGGGTGTCCAGCTAACAGCGGCTCAAGAACTAAT
GATCCAGCAGTTGGTGGCGGCCCAACTGCAGTGCAACAAACGCTCCTTCTCCGACCAGCCCCAAAGTCACGCCCTG
GCCCTGGGCGCAGACCCCCAGTCCCGAGATGCCCGCCAGCAACGCTTTGCCCACTTCACGGAGCTGGCCATCAT
CTCAGTCCAGGAGATCGTGGACTTCGCTAAGCAAGTGCCCTGGTTTTCTGTCAGCTGGGCCGGGAGGACCAGATCGC
CCTCCTGAAGGCATCCACTATCGAGATCATGCTGCTAGAGACAGCCAGGCGCTACAACCACGAGACAGAGTGTAT
CACCTTCTTGAAGGACTTCACCTACAGCAAGGACGACTTCACCGTGCAGGCCTGCAGGTGGAGTTCATCAACCC
CATCTTCGAGTTCTCGCGGGCCATGCGGGCGGCTGGGCCTGGACGACGCTGAGTACGCCCTGCTCATCGCCATCAA
CATCTTCTCGGCCGACCGGCCCAACGTGCAGGAGCCGGGCCGCGTGGAGGCGTTGCAGCAGCCCTACGTGGAGGC
GCTGCTGTCTACACGCGCATCAAGAGGCCGCGAGGACCAGCTGCGCTTCCCGCGCATGCTCATGAAGCTGGTGAG
CCTGCGCACGCTGAGCTCTGTGCACTCGGAGCAGGTCTTCGCCTTGGGCTCCAGGACAAGAAGCTGCCGCCTCT
GCTGTGCGAGATCTGGGACGTCCACGAGTGAGGGGCTGGCCACCCAGCCCCACAGCCTTGCCCTGACCACCTCCA
GCAGATAGACGCCGGCACCCCTTCCCTCTCCTAGGGTGGAAGGGGCCCTGGGCCGAGCCTGTAGACCTATCGGCT
CTCATCCCTTGGGATAAGCCCCAGTCCAGGTCCAGGAGGCTCCCTCCCTGCCAGCGAGTCTTCCAGAAGGGGTG
AAAGGGTTGCAGGTCCCGACCACTGACCCTTCCCGGCTGCCCTCCCTCCCCAGCTTACACCTCAAGCCCAGCACG
CAGTGACCTTGAACAGAGGGAGGGGAGGACCCATGGCTCTCCCCCTAGCCCGGGAGACCAGGGCCTTCCTCTT
CCTCTGCTTTTATTTAATAAAAACTAAAAACAGAAA

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FIGURE 5579

MSSPTTSSLDITPLPGNGPPQPGAPSSSPTVKEEGPEPWPGGPDVPGTDEASSACSTDWVIPDPEEEPERKRKK
GPAPKMLGHELCRVCGDKASGFHYNVLSCEGCKGFFRRSVVRGGARRYACRGGGTCQMDAFMRRKCQQCRLRKCK
EAGMREQCVLSEEQIRKKKIRKQQQESQSQSQSPVGPQGSSSSASGPGASPGGSEAGSQSGEGEGVQLTAAQEL
MIQQLVAAQLQCNKRSFSDQPKVTPWPLGADPQSRDARQQRFAHFTELAIISVQEIVDFAKQVPGFLLQLGREDQI
ALLKASTIEIMLLETARRYNHETECITFLKDFITYSKDDFHRAGLQVEFINPIFEFSRAMRRLGLDDAEYALLIAI
NIFSADRPNVQEPGRVEALQQPYVEALLSYTRIKRPQDQLRFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKLPP
LLSEIWDVHE

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FIGURE 5580

AGTCAGGGGTCACGGCGGCGTAGGCTGTGGCGGGAAACGCTGTTTGAAGCGGGATCGATGGCAAGCGGCGGCCAG
GCCCAGGGCCCCGGGGTGCCCCAAAGCGGGCCCGTGGGGGCCCTCTGGGATGATGATGATGCACCTTGGCCATCCC
AATTTCGAGGAGGACCTGGCACTGATGGAGGAGATGGAGGCAGAACACAGGCTGCAGGAGCAGGAGGAGGAGGAGC
TGCAGTCAGTCCTGGAGGGGGTTGCAGACGGGCAGGTCCCACCATCAGCCATAGATCCTCGCTGGCTTCGGCCCA
CACCACCAGCGCTGGACCCCCAGACAGAGCCCCCTCATCTTCCAACAGTTGGAGATTGACCATTATGTGGGCCAG
CGCAGCCTGTGCCTGGGGGGCCCCCACCATCCCGCGGCTCCGTGCCTGTGCTCCGCGCCTTCGGGGTCACCGATG
AGGGGTTCTCTGTCTGTCTGCCACATCCACGGCTTCGCTCCCTACTTCTACACCCAGCGCCCCCTGGTTTCGGGC
CCGAGCACATGGGTGACCTGCAACGGGAGCTGAACTTGGCCATCAGCCGGGACAGTCGCGGGGGGAGGGAGCTGA
CTGGGCCGGCCGTGTCTGGCTGTGGAAGTGTGCTCCCGAGAGAGCATGTTTGGGTACCACGGGCACGGCCCCCTCCC
CGTTCTCTGCGCATCACCGTGGCGCTGCCGCGCCTCGTGGCCCCGGCCCGCGCTCTCCTGGAACAGGGCATCCGTG
TGGCAGGCCTGGGCACGCCCAGCTTCGCGCCCTACGAGGCCAACGTCGACTTTGAGATCCGGTTCATGGTGGACA
CGGACATCGTCGGCTGCAACTGGCTGGAGCTCCCAGCTGGGAAATACGCCCTGAGGCTGAAGGAGAAGGCTACGC
AGTGCCAGCTGGAGGCGGACGTGCTGTGGTCTGACGTGGTCAGTCACCCACCGGAAGGGCCATGGCAGCGCATTG
CGCCCTTGCGCGTGTCTAGCTTCGATATCGAGTGCGCCGGCCGCAAGGCATCTTCCCTGAGCCTGAGCGGGACC
CTGTATCCAGATCTGTCTCGCTGGGCCTGCGCTGGGGGGAGCCGGAGCCCTTCTACGCCTGGCGCTCACCTGC
GGCCCTGTGCCCCCATCCTGGGTGCCAAGGTGCAGAGCTACGAGAAGGAGGAGGACCTGTGTCAGGCCTGGTCCA
CCTTCATCCGTATCATGGACCCCCGACGTGATCACCGGTTACAACATCCAGAACTTCGACCTTCCGTACCTCATCT
CTCGGGCCCAGACCCTCAAGGTACAAACATTCCCTTTCTGGGCCGTGTGGCCGGCCTTTGCTCCAACATCCGGG
ACTCTTCATTCCAGTCCAAGCAGACGGGCCGGCGGACACCAAGGTTGTGAGCATGGTGGGCCGCGTGCAGATGG
ACATGCTGCAGGTGCTGTCTGCGGGAGTACAAGCTCCGCTCCACACGCTCAATGCCGTGAGCTTCCACTTCTCTGG
GCGAGCAGAAGGAGGACGTGCAGCACAGCATCATCACCGACCTGCAGAAATGGGAACGACCAGACCCGCCGCCGCC
TGGCTGTGTACTGCCTGAAGGATGCCTACCTGCCACTGCGGCTGTGAGCGGCTCATGGTGTGGTGAACGCCG
TGGAGATGGCGAGGGTCACTGGCGTGCCCCCTCAGCTACCTGCTCAGTCGTGGCCAGCAGGTCAAAGTCGTATCCC
AGCTGTTGCGGCAGGCCATGCACGAGGGGCTGTGATGCCCGTGGTGAAGTCAGAGGGCGGCGAGGACTACACGG
GAGCCACTGTCTCGAGCCCCCTCAAAGGGTACTACGACGTCCCCATCGCCACCCTGGACTTCTCCTCGCTGTACC
CGTCCATCATGATGGCCACAACCTGTGTTACACCACGCTCCTTCGGCCCCGGGACTGCACAGAACTGGGCCTGA
CTGAGGATCAGTTTCATCAGGACCCCCACCGGGGACGAGTTTGTGAAGACCTCAGTGCAGGAAGGGGCTGTGCCCC
AGATCCTGGAGAACCTGCTCAGTGCCCCGAAGAGGGCCAAGGCCGAGCTGGCCAAGGAGACAGACCCCTCCGGC
GCCAGGTCCTGGATGGACGGCAGCTGGCGCTGAAGGTGAGCGCCAACCTCCGTATACGGCTTCACTGGCGCCCAGG
TGGGCAAGTTGCCGTGCTTGGAGATCTCACAGAGCGTCACGGGGTTCCGACGTCAGATGATCGAGAAAACCAAGC
AGCTGGTGGAGTCTAAGTACACAGTGGAGAATGGCTACAGCACCAGTGCCAAGGTGGTGTATGGTGACACTGACT
CCGTATGTGCCGATTCCGGCTGTCTCGGTGGCTGAGGCGATGGCCCTGGGGCGGGAGGCCGCGGACTGGGTGT
CAGGTCACTTCCCGTCGCCCATCCGGCTGGAGTTTGAGAAGGTCTACTTCCCATACTGCTTATCAGCAAGAAGC
GCTACGCGGGCCTGCTCTTCTCCTCCCGGCCCCGACGCCCACGACCGCATGGACTGCAAGGGCCTGGAGGCCGTGC
GCAGGGACAACCTGCCCCCTCGTGGCCAACCTGGTCACTGCCTCACTGCGCCGCTGCTCATCGACCGAGACCCTG
AGGGCGCGGTGGCTCACGCACAGGACGTCTCTCGGACCTGCTGTGCAACCGCATCGATATCTCCAGCTGGTCA
TCACCAAGGAGCTGACCCGCGCGGCCTCCGACTATGCCGGCAAGCAGGCCACGTCGAGCTGGCCGAGAGGATGA
GGAAGCGGGACCCCGGAGTGCGCCAGCCTGGGCGACCGCGTCCCCCTACGTGATCATCAGTGCCGCCAAGGGTG
TGGCCGCCTACATGAAGTCGGAGGACCCGCTGTTCTGTCTGGAGCACAGCCTGCCATTGACACGCAGTACTACC
TGGAGCAGCAGCTGGCCAAGCCCCCTCTGCGCATCTTCGAGCCCATCCTGGGCGAGGGCCGTGCCGAGGCTGTGC
TACTGCGGGGGGACCACGCGCTGCAAGACGGTGTCTACGGGCAAGGTGGGCGGCCTCCTGGCCTTCGCCAAAC
GCCGCAACTGCTGCATTGGCTGCCGCACAGTGTCTAGCCACCAGGGAGCCGTGTGTGAGTTCTGCCAGCCCCGGG
AGTCTGAGCTGTATCAGAAGGAGGTATCCCATCTGAATGCCCTGGAGGAGCGCTTCTCGCGCCTCTGGACGCAGT
GCCAGCGCTGCCAGGGCAGCCTGCACGAGGACGTCTGTGACACGCGGGACTGCCCCATCTTCTACATGCGCA
AGAAGGTGCGGAAGGACCTGGAAGACCAGGAGCAGCTCCTGCGGCGCTTCGGACCCCTGGACCTGAGGCCTGGT
GACCTTGCAAGCATCCCATGGGGCGGGGGCGGGACCAGGGAGAATTAATAAAGTTCTGGACTTTTGCT

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FIGURE 5581

MDGKRRPGPGPGVPPKRARGGLWDDDDAPWPSQFEEDLALMEEMEAHRLQEQQEEEELQSVLEGVADGQVPPSAI
DPRWLRPTPPALDPQTEPLIFQQLEIDHYVGPAQPVPGPPPSRGSVPVLRAFGVTDEGFSVCCHIHGFAPYFYT
PAPPGFGPEHMGDLQRELNLAISRDSRGGRELTGPAVLAVELCSRESMFGYHGHGPSFPLRITVALPRLVAPARR
LLEQGIRVAGLGTPSFAPYEANVDIFEIRFMVDTDIVGCNWLELPAGKYALRLKEKATQCQLEADVLSWDVVSHP
EGPWQRIAPLRVLSFDIECAGRKGIFPEPERDPVIQICSLGLRWGEPEPFLRLALTLRPCAPILGAKVQSYEKEE
DLLQAWSTFIRIMDPDVITGYNIQNFDLPYLISRAQTLKVQTFPFLGRVAGLCSNIRDSSFQSKQTGRRDTKVVS
MVGRVQMDMLQVLLREYKLRSHTLNAVSFHFLGEQKEDVQHSIITDLQNGNDQTRRRLAVYCLKDAYLPLRLLER
LMVLVNAVEMARVTGVPLSYLLSRGQQVKVVSQLLRQAMHEGLLMPVVKSEGGEYTGATVIEPLKGYVDVPIAT
LDFSSLYPSIMMAHNLCYTTLRLPGTAQKLGLTEDQFIRTPTGDEFVKTSVRKGLLPQILENLLSARKRAKELA
KETDPLRRQVLDGRQLALKVSANSVYGFTGAQVGKLPCLISQSVTGFRQMIKTKQLVESKYTVENGYSTSAK
VYGD TDSVMCRFGVSSVAEAMALGREAADWVSGHFPSPIRLEFEKVYFPYLLISKRYAGLLFSSRPDAHRMD
CKGLEAVRRDNCP LVANLV TASLRLLIDRDEGAVAHAQDVISDLLCNRIDISQLVITKELTRAASDYAGQAH
VELAERMKRDPGSAPSLGDRVPYVIIISAAKGVAAYMKSEDP LFVLEHSLPIDTQYYLEQQLAKPLLRIFEPILG
EGRAEAVLLRGDHTRCKTVLTGKVGGLLAFARRNCCIGCRTVLSHQGAVCEFCQPRESELYQKEVSHLNLEER
FSRLWTQCQRCQGS LHEDVICTSRDCPIFYMRKKVRKDLEDQEQLLRRFGPPGPEAW

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FIGURE 5582

GCCTCCTTCCGTCTGTAACTCACCTAAAGACCCAAGACCTGCGACATCCGTAGACCGCGCCCGCTATGCACAGCT
AAAGAGCACTCACCCCTCGCGCACCAGTCCCGGCCCGGCAGCCGCTGCCCCGGGCTCGACTGGGCGCTGCTACCG
CCATCAGCAAGAGCAGGAGCAGCCGGGTTGCCCCAGCGCTGGCTGCCGCCATCTCGGCTTCTTCCCACCAGCGAA
GGGACGGCTGTGAGCCAAGAGCCGCGGAGCACGCCGGGAGGAACAGGCCGCATCCTGACGCCCGTGCGCCTGCGC
TGGGCCCCGGCACCTGCGCACTGGCACCCGTCCGCACCTGGGGCCTGACGTCAGCAGGATGGGGGCCGCCCTTTG
GCCTGATCTCCAGGAGCCGCCCTCCAGGGACGTCATCACAAATCAGGAGCCCGCTCTTGTGTGACGTCATAAA
GCCCCGTCCGCATCATGACGTCACAGTGCGCGTAGTCCCGCCCCCTCGCTTTCTCCCTCTGCTCCTCCGTCCGCT
CCCGTCGGACGGGGACATTGCAATGAGGCGGGATCGCGGCCCTAAGCCGGCCCTGGGTGGAGCTGGCGAGGTGGA
ACCAGGTGGGATGGCAGCCTCTCCACGGGCGGTCCAGACGGCTCCAACGCTACCTCCAGAGCGGCGAATTGGA
CCAGTTTCGGGACTTCCCCATCTTTGAGAGCAACTTCGTACAGTTCTGCCCCGACATCTATCCTGCCCCGACCTC
TGACCTCTGGCCCCAGGTGACTCGGTTGGGAGAAGTTGCCAACGAGGTCACCATGGGGGTGGCAGCCTCCAGTCC
AGCCCTGGAGCTCCCGGACCTATTGCTTCTGGCCGGCCCTGCCAAGGAGAACGGACACCTGCAACTCTTCGGGCT
GTTCCCCTTGAAGTTCGTCCAGCTCTTTGTCCACGACAAAAGCCGGTGTGAGCTCGAGGTCAAGTTGAACACCAG
CCGCACCTTCTACTTGACGCTGCGGGCCCCACTCAAGACCCGAGACCGAGAGTTCGGCCAGTGGGTGCGGCTGCT
CTACCGCCTGCGCTTCTCTCTGCTTCTGCTGTGCCCTTCACGCAGGAGTAAGAGCCCCAAGGCGTGGAAGCCAG
ACTTGACCCCAAGACCTCTGAACTCTGGGGACTCTGAGTCTTCCAGCATCCTTCAAGGTCACCGAATGACCAGAG
ATCAAAGTACCTTGCCTCAGGGCCGGGCAGATGAGATATTAAAGTTAATAAAGGTCAGTCCATTAAGAACCAA

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FIGURE 5583

MGPPLWPDLOEPPPPGTSSQIRSPLLCDVIKPAPHHDVTVRVVPPPRFLPLLLRPLPSDGD IAMRRDRGPKPALG
GAGEVEPGGMAASPTGRPRRLQRYLQSGEFDQFRDFPIFESNFVQFCPDIYPAPTS DLWPQVTRLGEVANEVTMG
VAASSPALELPDLLLLLAGPAKENGHLQLFGLFPLKFVQLFVHDKSRCQLEVKLNTSRTFY LQLRAPLKTRDREFG
QWVRLLYRLRFLSASAVPFTQE

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FIGURE 5584

GCCGTCCTTCGCTGGTGGGAAGAAGCCGAGATGGCGGCAGCCAGCGCTGGGGCAACCCGGCTGCTCCTGCTCTT
GCTGATGGCGGTAGCAGCGCCAGTCGAGCCCCGGGGCAGCGGCTGCCGGGCCGGGACTGGTGCGCGAGGGGCTGG
GGCGGAAGGTCGAGAGGGGCGAGGCCTGTGGCACGGTGGGGCTGCTGCTGGAGCACTCATTTGAGATCGATGACAG
TGCCAACCTTCGGAAGCGGGGCTCACTGCTCTGGAACCAGCAGGATGGTACCTTGTCCCTGTCACAGCGGCAGCT
CAGCGAGGAGGAGCGGGGCCGACTCCGGGATGTGGCAGCCCTGAATGGCCTGTACCGGGTCCGGATCCCAAGGCG
ACCCGGGGCCCTGGATGGCCTGGAAGCTGGTGGCTATGTCTCCTCCTTTGTCCCTGCGTGCTCCCTGGTGGAGTC
GCACCTGTGCGACCAGCTGACCTTGCACGTGGATGTGGCCGGCAACGTGGTGGGCGTGTCGGTGGTGACGCACCC
CGGGGGCTGCCGGGGCCATGAGGTGGAGGACGTGGACCTGGAGCTGTTCAACACCTCGGTGCAGCTGCAGCCGCC
CACCACAGCCCCAGCCCTGAGACGGCGGCCTTCATTGAGCGCCTGGAGATGGAACAGGCCCCAGAAGGCCAAGAAC
CCCCAGGAGCAGAAGTCCTTCTTCGCCAAATACTGGATGTACATCATTTCCCGTCGTCCTGTTCCCTCATGATGTCA
GGAGCGCCAGACACCGGGGGCCAGGGTGGGGGTGGGGGTGGGGGTGGTGGTGGGGGTAGTGGCCGGTGAGGGCCC
AGGCTGGTCAGCGTCCCGTCTTGACACCCAGGGGCCTCCCTTTCTGCTGGAGTCCCTGTGTCTCAGCCATCC
CAAGAAGGGTTTGCTGGTCCCTCCTTTCCCCCGTCCCACGAGGCCACCTGGGCCAGCCCCCTGTCTCTGCCTT
CTGCTGGCAGAGGAGCAGCTGGACTGGGGCCTTTGGCACAGCAGCCGGTGTCTCCTGCGCCCGCCTCCCCATGG
CCCCATGCAGCCCCAGGGGCTTCCCCCTGCCCATGGAGTAGAGCCGAGATCCTGGCCACTATGCCAGTTCTGA
CCTCGCATCCCCCTACCCCGAGCCCATGCAGTCTGGGAACATGCCGCCTTCTCTCCAGCCTCTGTGCCTTTGTTT
CAGGTGGTCTCACCTCCTGTCCCTGGCTGGGCTAGGTGGTCTGTCCAGGCTCCTGCAGCGCCCCCTCACTTT
GACACTGGACTAGGATGCAGCCTCCCTTCTGTGTCCCTTGAGGGTACCCTGGGTCCCTCATCAGGGGCAGAGG
CATGAAAGAGTCGGGGCTGGATGGCCGGGGGCTTCTGGGCCCGACGCCTAGTGCAGCCCCTGGGGTCGTGGTTTG
ACATTTGTCTGCCTGGTGCAAACAAGGAATCCTTGCCCTTAAGGTGACAGGCCCTCCACAGGCTTCCAGACTTGA
AGGAAAAGGTTTAAGAAAGAAAACAAAACCAACAGTTAGTGGAGTCAAAGCCCAGACACTGTAAATAGAACCCCC
TCCACCACCCCCCGCCGCCAGCATCCTACCTGGACTGCGGTGCTACGAGGGCCTGCGGGCCTTTGCTGTGTGCC
ACCCTCCCTGTAAGTCTATTTAAAAACATCGACGATACATTGAAATGTGTGAACGTTTTGAAAAGCTACAGCTTC
CAGCAGCCAAAAGCAACTGTTGTTTTGGCAAGACGGTCTGATGTACAAGCTTGATTGAAATCACTGCTCACTT
GATACGTTATTCAGAAACCAAGGAATGGCTGTCCCATCCTCATGTGGCTGTGTGGAGCTCAGCTGTGTTGTGT
GGCAGTTTATTAAACTGTCCCCAGATCGACACGC

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FIGURE 5585

MAAASAGATRLLLLLLLMAVAAPSRARGSGCRAGTGARGAGAEGREGEACGTVGLLLEHSFEIDDSANFRKRGSL
WNQQDGTLSLSQRQLSEEERGLRDVAALNGLYRVRIIPRRPGALDGLEAGGYVSSFVPACSLVESHLSDDLTLHV
DVAGNVVGVSVVTHPGGCRGHEVEDVDLELFNTSVQLQPPTTAPGPETAAFIERLEMEQAQKAKNPQEQKSFFAK
YWMYIIPVVLFLMSGAPDTGGQGWGWGWGW

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FIGURE 5586

ATGGGGGTGGGGGGATGCGGGCTGGCAGCGGGAGAGCTGGGGACAGATGCGGAGCCCTCCCTTCACCTGCCACACA
CCTGTACCTCCACGGTTGCCTTGTCTGCCACCTTACCTCTCTCTCCCTCAGATTCTCCCATGAGTCTGACTCAA
GTCTCTGAAGCTGCTGTGAGGCCCCACAGGGCCTGGACAGGCCTCTCCCCCTTCTCTCCCCCACCACAGCCCC
CCAGCGTCCACGCGGAGCATGAACATTGAGGATGGCGCGTGCCCGCGGCTCCCCGTGCCCCCGCTGCCGCCCGC
AACCAGGCCAGCCGGGTGATCTGCACACGGAGAGACCTGGCCGAGGTCCCAGCCAGCATCCCGGTCAACACGCGG
TACCTGAACCTGCAAGAGAACGGCATCCAGGGTGGGAGGACTTGGCTGCTCCCATCTGACCATCCTGAGAGCCAG
ATTCAGGGAAGAAAAGGGACCTCTCAGGGGAGCAGTCCCTTCTGGTGGCTGTGGGGCAAGGGCCAGCGAAGGGG
TCCAGAAACGGGTTCTTGCACCGCCCCCTGCCCCACCCAGAGACATGGATGGAGGGTGTGTTTCGTCCAGTCCACG
AGAGTGGATGCTTCTGGGTCACTGCGTGCTGAGCGCCGAGCAGCCTCAGGCTGTCCGCCTGTGGCCACGCTGTTG
TCACGGTCTCTGTCCAGAGGCACCAAGGAGACTTGGAAAACACTGTGGGCTGGAGCCCCAGGTGCACGCTCCCC
GGGACCGGCAGCCCTGTGTGAGTCACTTGACTTCACCGAGCCTTGGTCTCCTGTCTCTGAAATGACGTGTGATGCT
CACCTCCAGGGCTGCCGGGGGAGTCAGCAGGAGCCTGGGGTGCCGAGAGGCTCCGGGAGCTGCAGGCAGGAGCG
ATCAGTGATGACCGGGACCTCCTCCTCCTGTTACTATTATTGATGTTATTATTATTATAAGAAATAGCAACCGAG
TGCCTGCTTTATCAATCACCAGCATTTCAGGGAGGTGATAAGCTGCGTTTGGGCATGGTACAAGTTTCTCAAC
GCCAACGATAACGATAACAATGAGAATGACGACGTGCTGAGCACCCTGAACACTGGGACCTCATCTCCTCTCCC
TCACCCTCTGAAGTGCTTTTCATCATCCTCCTCGTGGTGATCCGGACGGACACGTTCAAGCACCTGCGGCACCTG
GAGATTCTGCAGCTGAGCAAGAACCTGGTGCGCAAGATCGAGGTGGGCGCCTTCAACGGGCTGCCCAGCCTCAAC
ACGCTGGAGCTTTTTTGACAACCGGCTGACCACGGTGCCACGAGGCCTTCGAGTACCTGTCCAAGCTGCGGGAG
CTCTGGCTGCGGAACAACCCCATCGAGAGCATCCCCTCCTACGCCTTCAACCGCGTGCCCTCGCTGCGGCGCCTG
GACCTGGGCGAGCTCAAGCGGCTGGAATACATCTCGGAGGCGGCCTTCGAGGGGCTGGTCAACCTGCGCTACCTC
AACCTGGGCATGTGCAACCTCAAGGACATCCCCAACCTGACGGCCCTGGTGCGCCTGGAGGAGCTGGAGCTGTG
GGCAACCGGCTGGACCTGATCCGCCCGGGCTCCTTCCAGGGTCTCACCAGCCTGCGCAAGCTGTGGCTCATGCAC
GCCCAGGTAGCCACCATCGAGCGCAACGCCTTCGACGACCTCAAGTCGCTGGAGGAGCTCAACCTGTCCCACAAC
AACCTGATGTGCTGCCCCACGACCTCTTCACGCCCCCTGCACCGCCTCGAGCGCGTGACCTCAACCACAACCCC
TGGCATTGCAACTGCGACGTGCTCTGGCTGAGCTGGTGGCTCAAGGAGACGGTGCCAGCAACACGACGTGCTGC
GCCCCGTGTATGCGCCCGCCGGCCTCAAGGGGCGCTACATTGGGGAGCTGGACCAAGTCGCATTTACCTGCTAT
GCGCCCGTATCGTGAGCCGCCCACGGACCTCAACGTACCGAGGGCATGGCTGCCGAGCTCAAAATGCCGCACG
GGACCTCCATGACCTCCGTCAACTGGCTGACGCCAACGGCACCTCATGACCCACGGCTCCTACCGCGTGCGC
ATCTCCGTCTGATGACGGCACGCTTAACCTTACCAACGTACCGTGAGGACACGGGCCAGTACACTGGTGGT
GTTGGAGGGGGCAGTGGCGGCTACACCTACTTACCAACGTACCGTGAGGACCCCTGGAGACGCAGCCCGGAGAG
GAGGCCCTGCAGCCGCGGGGGACGGAGAAGGAACCGCCAGGGCCACGACAGACGGTGTCTGGGGTGGGGGCCGG
CCTGGGGACGCGGCCGGCCCTGCCTCGTCTTCTACCACGGCACCCGCCCGCGCTCCTCGCGGCCACGGAGAAG
GCGTTACGGTGCCCATCACGGATGTGACGGAGAAGCCCTCAAGGACCTGGACGACGTATGAAGACCACCAA
ATCATCATCGGCTGCTTCGTGGCCATCACGTTTATGGCCGCGGTGATGCTCGTGGCCTTCTACAAGCTGCGCAAG
CAGCACCAGCTCCACAAGCACCACGGGCCACGCGCACCGTGAGATCATCAACGTGGAGGACGAGCTGCCCGCC
GCCTCGGCCGTGTCCGTGGCCCGCGGCCGCCGTGGCCAGTGGGGGTGGTGTGGGCGGGGACAGCCACCTGGCC
CTGCCCGCCCTGGAGCGAGACCCTCAACCACCACCTACGTGGCTGCCGCCTTCAAGGCGCACTACAGCAGC
AACCCAGCGGCGGGGGCTGCGGGGGCAAAGGCCCGCTGGCCTCAACTCCATCCACGAACCTCTGCTCTTCAAG
AGCGGCTCCAAGGAGAACGTGCAAGAGACGCAGATCTGA

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FIGURE 5587

MAAAGLEAGVGAVGSHRPCGVPRPQIQALRFGPALWLRGCGLDHRQGLKSPPASTRSMNIEDGACPRLPVPPAAA
RNQASRVICTRRDLAEVPASIPVNTRYLNLQENGIQGGRTWLLPSDHPESQIQGRKGTSGGSSPFLVAVGQGPAAK
GSRNGFLHRPLPHPETWMEGVFVQSTRVDASGSLRAERRAASGCPPVATLLSRSSVQRHQGDLENTVGWSPRCTL
PGTGSPAESLDFTEPWSFVSEMTCD AHLQGCGRSQQEPGVQRLRELQAGAISDDRDL LLLLLLLLLLMLLLIEIAT
ECLLYQSPAFPREVISCVWAWYKFLNANDNDNNENDDLSTPEHWDLISSPSPSEVLFIILLVVIRTDTFKHLRH
LEILQLSKNLVRKIEVGAFNGLPSLNTLELFDNRLTTVPTQAFEYLSKLRELWLRNNP IESIPSYAFNRVPSLRR
LDLGELKRLEYISEAAFEGLVNRLRYLNLGMCNLKDIPNLTA LVRLEEELELSGNRLDLIRPGSFQGLTSLRKLWLM
HAQVATIERNAFDDLSLEELNLSHNNLMSLPHDLFTPLHRLERVHLNHNPNWHCNCDVLWLSWWLKETVPSNTTC
CARCHAPAGLKGRYIGELDQSHFTCYAPVIVEPPTDLNVTEGMAAELKCRGTGMTSVNWLTPNGTLMTHGSYRV
RISVLHDGTLNFTNVTVQDTGQYTGGVGGGSGGYTYFTTIVTETLETQPGEEALQPRGTEKEPPGPTTDGVWGGG
RPGDAAGPASSSTTAPAPRSSRPTEKAFTVPITDVTENALKDLDDVMKTTKIIIGCFVAITFMAAVMLVAFYKLR
KQHQHLKHHGPTRTVEIINVEDELPAASAVSVAAAAAVASGGGVGGDSHLALPALERDHLNHHHYVAAAFKAHYS
SNPSGGGCGGKGPPGLNSIHEPLLFKSGSKENVQETQI

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FIGURE 5588

CACTCATTAAAGAACAGAGGAGGCTGCCTGTTACTCCTGGTGTGTCATCCCTCCAGACACTCTGCTGTTTCCTGCC
TAGGCGTGGCTGCAGCCATGGCTAGGAAAGCGCTGCCACCCACCCACCTGGGCCAGAGCTGGTTCTGCTCCTGCT
GCAGGGACACTGAGCTGGCTATCTCGGCGCTTCGGGCAAGAACTGCAACAGGCTCTCCTGGGTCCTGCAGGTGTA
CAGCCGGGCCCCCTGCCTTGTGCCTCAGCTCTCGAGAGCTGCTGCTGCCGGGTGACCTGATCCAACCTGATAAGGT
GCCATCTTCAGCTACCACTGCAAGGCCCTGAGGGCAACAGCAGCACGGCACTGCCCACCCGGCTGCTGATGGCCT
GGTGCCAGCTGGGAGTCCTCCCGGCACTTCGAGGGCACTGAGCCACCCCTCCAGCCCCAGCCCACCATGGACAGG
GGTATCCAGCTTCCTCCTCAACCTCGTCCTCTGCCCCTGAGCCAGTGACGCCCAAGGACATGCCTGTTACCCAGG
TCCTGTACCAGCACTAGCTGGTCAAGGGC**ATG**ACAGTGCTGGAGGCCGTCTTGGAGATCCAGGCCATCACTGGCA
GCAGGCTGCTCTCCATGGTGCCAGGGCCCGCCAGGCCACCAGGCTCATGCTGGGACCCAACCCAGTGCAACAAGGA
CTTGGCTGCTGAGCCACACACCCAGGAGAAGGTGGATAAGTGGGCTACCAAGGGCTTCCTGCAGGCTAGGGGAGG
AGCCACCCCGCTTCCTATTGTGACCAGGCCTATGGGGAGGAGCTGTCCATACGCCACCGTGAGACCTGGGCCT
GGCTCTCAAGGACAGACACCGCCTGGCCTGGTGTCTCAGGGGTGAAGCAGGCCAGAATCCTGGGGGAGCTGCTCC
TGGTT**TGA**GCTGCATTTCAGGAAGTGCGGGACATGGTAGGGGAGGCAGGCAAGCCCTTGGGCACTACCCTCCCTGTGG
AGCTGTTCCGGTGTCGTCGAGCTAGCCACACCCCTGACACCATGTTCAAGGGTACCGGAAGAGAAGGGTGTCTGCC
CCCAACCTCCCCCTGTGGGTGTCACTGGCCAGATGTGTCATGAGGGAAGCAGGCCTTGTGAGTGACACTGACCATGA
GTCCCTGGGGGGAGTGATCCCCCAGGCATCGTGTGCCATGTTGCACTTCTGCCCAGGCAGCAGGGTGGGTGGGTA
CCATGGGTGCCACCCCTCCACCACATGGGGCCCCAAGCACTGCAGGCCAAGCAGGGCAACCCACACCCTTGA
CATAAAAGCATCTTGAAGCTTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5589

MTVLEAVLEIQAITGSRLLSMVPGPARPPGSCWDPTQCTRTWLLSHTPRRRWISGLPRASCRLGEEPPPLPYCDQ
AYGEELSIRHRETWAWLSRTDTAWPGAPGVKQARILGELLV

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FIGURE 5590

AGCCCCAAGCTTACCACCTGCACCCGGAGAGCTGTGTGTCACCATGTGGGTCCCGGTTGTCTTCCTCACCCCTGTC
CGTGACGTGGATTGGTGCTGCACCCCTCATCCTGTCTCGGATTGTGGGAGGCTGGGAGTGCAGAGAAGCATTCCCA
ACCCTGGCAGGTGCTTGTGGCCTCTCGTGGCAGGGCAGTCTGCGGCGGTGTTCTGGTGACCCCCAGTGGGTCTT
CACAGCTGCCCAGTGCATCAGGAACAAAAGCGTGATCTTGCTGGGTCCGCACAGCCTGTTTCATCCTGAAGACAC
AGGCCAGGTATTTAGGTCAGCCACAGCTTCCACACCCGCTCTACGATATGAGCCTCCTGAAGAATCGATTTCCT
CAGGCCAGGTGATGACTCCAGCCACGACCTCATGCTGCTCCGCTGTCAGAGCCTGCCGAGCTCACGGATGCTGT
GAAGGTCATGGACCTGCCCACCCAGGAGCCAGCACTGGGGACCACCTGCTACGCCTCAGGCTGGGGCAGCATTGA
ACCAGAGGAGTTCTTGACCCCAAAGAACTTCAGTGTGTGGACCTCCATGTTATTTCCAATGACGTGTGTGCGCA
AGTTCACCCCTCAGAAGGTGACCAAGTTCATGCTGTGTGCTGGACGCTGGACAGGGGGCAAAGCACCTGCTCGGG
TGATTCTGGGGGCCCACTTGTCTGTAATGGTGTGCTTCAAGGTATCACGTCATGGGGCAGTGAACCATGTGCCCT
GCCCCAAAGGCCTTCCCTGTACACCAAGGTGGTGCATTACCGGAAGTGGATCAAGGACACCATCGTGGCCAACCC
CTGAGCACCCCTATCAACCCCTATTGTAGTAAACTTGGAACCTTGGAATGACCAGGCCAAGACTCAAGCCTCC
CCAGTTCTACTGACCTTTGTCTTAGGTGTGAGGTCCAGGGTTGCTAGGAAAAGAAATCAGCAGACACAGGTGTA
GACCAGAGTGTTTCTTAAATGGTGTAAATTTGTCTCTCTGTGCTCCTGGGGAATACTGGCCATGCCTGGAGACAT
ATCACTCAATTTCTCTGAGGACACAGATAGGATGGGGTGTCTGTGTTATTTGTGGGGTACAGAGATGAAAGAGGG
GTGGGATCCACACTGAGAGAGTGGAGAGTGACATGTGCTGGACACTGTCCATGAAGCACTGAGCAGAAGCTGGAG
GCACAACGCACCAGACACTCACAGCAAGGATGGAGCTGAAAACATAACCCACTCTGTCCTGGAGGCACTGGGAAG
CCTAGAGAAGGCTGTGAGCCAAGGAGGGAGGGTCTTCCTTTGGCATGGGATGGGGATGAAGTAAGGAGAGGGACT
GGACCCCTGGAAGCTGATTCACTATGGGGGAGGTGATTGAAGTCCTCCAGACAACCCTCAGATTTGATGATT
TCCTAGTAGAACTCACAGAAATAAAGAGCTGTTATACTGTG

6057/6881
FIGURE 5591

MWVPVVFLLSVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVHPQWVLTAAHCIRNKSVILL
GRHSLFHPEDTGQVFQVSHSFPHPLYDMSLLKNRFLRPGDDSSHDLMLLRLSEPAELTDAVKVMDLPTQEPALGT
TCYASGWGSIEPEEFLLTPKKLQCVDLHVISNDVCAQVHPQKVTKFMLCAGRWTGGKSTCSGDSGGPLVCNGVLQG
ITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANP

6058/6881
FIGURE 5592

GGCGGACAAAACCCGATTGTTCTGGGCCCTTTCCCCATCGCGCCTGGGCCTGCTCCCCAGCCCGGGGCAGGGGC
GGGGGCCAGTGTGGTGACACACGCTGTAGCTGTCTCCCGGCTGGCTGGCTCGCTCTCTCTGGGGACACAGAGG
TCGGCAGGCAGCACACAGAGGGACCTACGGGCAGCTGTTCTTCCCCGACTCAAGAATCCCGGAGGCCCGGAG
GCCTGCAGCAGGAGCGGCCATGAAGAAGCTGATGGTGGTGCTGAGTCTGATTGCTGCAGCCTGGGCAGAGGAGCA
GAATAAGTTGGTGCATGGCGGACCCTGCGACAAGACATCTCACCCCTACCAAGCTGCCCTCTACACCTCGGGCCA
CTTGCTCTGTGGTGGGGTCCTTATCCATCCACTGTGGGTCTCACAGCTGCCCACTGCAAAAAACCGAATCTTCA
GGTCTTCTGGGGAAGCATAACCTTCGGCAAAGGGAGAGTTCCCAGGAGCAGAGTTCTGTTGTCCGGGCTGTGAT
CCACCCTGACTATGATGCCGCCAGCCATGACCAGGACATCATGCTGTTGCGCCTGGCAGCGCCAGCCAAACTCTC
TGAACCTCATCCAGCCCCCTTCCCCTGGAGAGGGACTGCTCAGCCAACACCACCAGCTGCCACATCCTGGGCTGGGG
CAAGACAGCAGATGGTGATTTCCCTGACACCATCCAGTGTGCATACATCCACCTGGTGTCCCGTGAGGAGTGTGA
GCATGCCTACCCTGGCCAGATCACCAGAACATGTTGTGTGCTGGGGATGAGAAGTACGGGAAGGATTCTGCCA
GGGTGATTCTGGGGGTCCGCTGGTATGTGGAGACCACCTCCGAGGCCTTGTGTCATGGGGTAACATCCCCTGTGG
ATCAAAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACACGAACTGGATCCAAAAAACCATTACAGGCCAA
GTGACCCTGACATGTGACATCTACCTCCCGACCTACCACCCCACTGGCTGGTTCCAGAACGTCTCTACCTAGAC
CTTGCTTCCCCTCCTCTCCTGCCAGCTCTGACCCTGATGCTTAATAAACGCAGCGACGTGAGGGTCCTGATTCT
CCCTGGTTTTTACCCAGCTCCATCCTTGCACTACTGGGGAGGACGTGATGAGTGAGGACTTGGGTCTCGGTCTT
ACCCCAACCACTAAGAGAATACAGGAAAATCCCTTCTAGGCATCTCCTCTCCCCAACCCCTTCCACACGTTTGATT
TCTTCTGCAGAGGCCAGCCACGTGTCTGGAATCCCAGCTCCGCTGCTTACTGTCCGGTGTCCCCTTGGGATGTA
CCTTTCTTCACTGCAGATTTCTCACCTGTAAGATGAAGATAAGGATGATACAGTCTCCATAAGGCAGTGGCTGTT
GGAAAGATTTAAGGTTTCACACCTATGACATACATGGAATAGCACCTGGGCCACCATGCACTCAATAAAGAATGA
ATTTT

6059/6881
FIGURE 5593

CACCCTGTAAGTGGCTGCGGCGGGAAGATGGCGGAGCTGCGCGTGCTCGTAGCTGTCAAGAGGGTCATCGACTAC
GCCGTGAAGATCCGAGTGAAGCCTGACAGGACCGGTGTGGTCACGGATGGTGTGAAGCACTCCATGAACCCCTTC
TGTGAGATCGCGGTGGAGGAGGCTGTGCGGCTCAAGGAGAAGAAGCTGGTGAAGGAGGTATCGCCGTCAGCTGT
GGGCCTGCACAGTGCCAGGAGACGATTTCGTACCGCCCTGGCCATGGGTGCAGACCGAGGTATCCACGTGGAGGTG
CCCCCAGCAGAAGCAGAACGCTTGGGTCCCCTGCAGGTGGCTCGGGTCCCTGGCCAAGCTGGCAGAGAAGGAGAAG
GTGGACCTGGTGCTGCTGGGCAAACAGGCCATCGATGATGACTGTAACCAGACAGGGCAGATGACAGCTGGATTT
CTTGA CTGGCCACAGGGCACATTTCGCCTCCCAGGTGACGCTGGAGGGGGACAAGTTGAAAGTGGAGCGGGAGATC
GATGGGGGCTGGAGACCCTGCGCCTGAAGCTGCCAGCTGTGGTGACAGCTGACCTGAGGCTCAACGAGCCCCGC
TACGCCACGCTGCCCAACATCATGAAAGCCAAGAAGAAGAAGATCGAGGTGATCAAGCCTGGGGACCTGGGTGTG
GACCTGACCTCCAAGCTCTCTGTGATCAGTGTGGAGGACCCGCCCCAGCGCACGGCCGGCGTCAAGGTGGAGACC
ACTGAGGACCTGGTGGCCAAGCTGAAGGAGATTGGGCGGATTTGAGCCCCCTCCCAGAGATGGCAATAAACTGAC
TCTCAACATCAAAAAAAAAAAAAAAAAA

6060/6881
FIGURE 5594

MAELRVLVAVKRVIDYAVKIRVKPDRTGVVTDGVKHSMPFCEIAVEEAVRLKEKKLVKEVIAVSCGPAQCQETI
RTALAMGADRGIHVEVPPAEAEERLGPLQVARVLAKLAEKEKVDLVLLGKQAIDDDCNQTGQMTAGFLDWPQGTFA
SQVTLEGDKLKVEREIDGGLETLRKLPAVVTADLRLNEPRYATLPNIMKAKKKKIEVIKPGDLGVDLTSKLSVI
SVEDPPQRTAGVKVETTEDLVAKLKEIGRI

6061/6881
FIGURE 5595

GTCCCGCCACACCGCCCGTCCCGCTTAGCCACCTGGCCCCGCCACTACCGCATCAGCCTTGCCCCACCCTTT
CAGGGTTCCCAAATCTGGCCAGTCTTTCTGCCCTTTCCCTTGCGGTCTTCCCTTGTCATACCCGTTTCTGGGG
ATCGCTACGGACCTTAAATACCAGCAACAGCCCCTTCGCCCCAAGACCATGTAGACAACCCCACTCAGGTCGTG
TTCCTGCTTAAACCCCTTACTGACCTCTGCTTCGGCCCTGCGCCAAGTCGAGTCCTCACTCGGGAGGAGGAGGCA
CTGCAGACAGACAGTGGGGAGAAGGTGAAAGAGTTGGAGCCGCAGCCGACAGAGCTACGTGGTGCTGGGACTGAA
AGAGAGGGGAGAGAGGGCAGTGGGTGACAAGCAGAGTAGAGGGAGAACCACAGCAGGGAGGAAGCCTAGGGAGTTG
GGGGTGCTAGAGAGTGGGAACAAAGGAGGTGTAACAGATTTGACTTGTAAGAATTAATTATATTGACTGAGAGA
GAAGCCCAGAAGAGGAAGAAGAGGAAAGAAAGGAGTCAGGGATGGCTCTTACACAGGGACCTTTGACATTTCAGG
GATGTAGCCATAGAATCTCTCAGGAGGAGTGGAAATCCCTGGACCCTGTGCAGAAAGCTTTGTACTGGGATGTG
ATGTTGGAGAACTACAGGAACCTGGTCTTCTGGGTATCCTTCCTAAATGTATGACCAAGGAATTACCACCAATA
GGGAACAGTAATACAGGAGAAAAATGCCAACAGTGACGCTGGAAAGACATGAATGTTATGATGTTGAAAATTTT
TACTTAAGGGAAATCCAGAAAAATCTACAGGACCTTGAGTTTCAATGGAAAGATGGTGAAATAAATTATAAGAA
GTGCCAATGACCTATAAAAAACAATCTTAATGGTAAAAGAGGTCAACATAGTCAAGAGGATGTAGAAAACAAATGT
ATTGAAAATCAGCTTACATTAAGCTTTCAGTCACGCTCTGACTGAACTGCAGAAATTTCAAAGTGAAGGAAAATT
TATGAGTGTAACCAATCTGAGAAGACAGTTAATAACAGTTCCTAGTTTCACCACCTCAAAGAATCTTCCCTAGT
GTCCAAACCAACATTTCTAAAAATATGAGAATGAGTTTTTGCAGCTGTCAATTACCCACCCAAGTGTAGAAAACA
CACATTAGGGAAAAACCTTATATGTGTAAAGGGTGTGGCAAAGCCTTTAGAGTGTCTTCAAGTCTTATTAACCAT
CAGATGGTACATACTACAGAGAAACCTTACAAATGCAATGAATGTGGCAAAGCCTTTCATCGGGGCTCACTACTA
ACTATACATCAGATAGTCCATACAAGGGGGAAGCCATATCAATGTGGTGTATGTGGCAAGATCTTCAGACAAAAT
TCAGATCTTGTAATCACCAGGAGAAGTCACACTGGAGAGAAACCGTACAAATGTAATGAATGTGGCAAGTCTTTT
AGTCAAAGTTATAACCTTGCAATACATCAGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAGTGTGGG
AAAACCTTCAAACAAGGCTCATGCCTCACTACACATCAGATAATCCATACAGGAGAGAAACCATATCAATGTGAT
ATATGTGGCAAGGTCTTCAGGCAGAATTTCTAATCTTGTAATCACCAGAGAATCCACACTGGAGAGAAACCATAC
AAATGCAACATATGTGGAAAGTCTTTAGTCAAAGTTCCAACCTGGCAACTCATCAGACAGTTCATAGTGGAAC
AAACCTTACAAATGTGATGAGTGTGGCAAACCTTTAAACGGAGCTCCAGCCTCACTACACATCAGATAATCCAT
ACAGGAGAGAAACCATATACATGTGATGTATGCGACAAGGTCTTCAGTCAACGTTCAAACTTGCAAGGCACCAG
AGAAGTCATACTGGAGAGAAACCTTACAAATGCAATGAATGTGGCAAGGTCTTCAGTCAGACTTCACATCTTGTG
GGGCATCGGAGAATTCATACTGGAGAGAAACCTTACAAATGTGATAAATGTGGTAAAGCCTTTAAACAGGGCTCA
TTACTCACTCGACATAAGATAATTCATACCAGAGAGAAACGTTACCAATGCGGTGAATGTGGAAAGGTCTTTAGT
GAAAATTCATGCCTTGTAAGACATTTAAGAATTCATACTGGGGAGCAACCTTACAAATGTAATGTGTGTGGCAAG
GTCTTCAATTACAGTGGAACCTTTCAATTCATAAGAGAATACATACGGGAGAGAAACCTTTCCAATGTAATGAA
TGTGGCACAGTCTTCAGGAACCTTCAATGACAGTGGAACCTTTCAAATCATAAGAGAATTCATACTGGAGAGAAAG
CCGTTTCAATGTAACGAATGCGGCAAGGTTTTAGTTACTACTCATGCCTAGCACGTCATCGGAAAATTCATACC
GGAGAGAAACCTTACAAATGTAATGATTGTGGCAAAGCCTATACTCAGCGTTCAAGCCTCACTAAACATCTGATA
ATTCATACTGGAGAGAAACCTTACAATTGTAATGAGTTTGGAGGGGCATTTATCCAAAGTTCAAACCTTGCAAGA
TATCACAGAAATCCTACTGGGGAGAAACCACACAAATGTAGCCATTGTGGTAGAACTTTTAGTCATATAACAGGC
CTGACGTACCATCAGAGAAGGCATACTGGAGAGATGCCATACAAATGTATTGAATGTGGCCAGGTCTTTAATTCC
ACTTCGAACCTTGCAAGGCATCGGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAATGTGGCAAGGTC
TTTCGTATCAATCAACACTAGCACGTCATCGGAGTATTCACTAGGAGAGAAACCTTACGTGTGTAATGAGTGT
GGCAAAGCCTTTAGAGTGCCTTCAATTCTGGTTAATCATCAGAAAATGCATACTGGGGACAAACCTTACAAATGT
AATGAATGTGGTAAAGCTTTTATTGAAAGGTCAAAGCTGGTGTACCATCAAAGAAATCACACTGGAGAGAAGCCA
TACAAATGTATTGAATGTGGCAAGGCCTTTGGGCGGTTTTCTTGCTCAACAAACACCAAATGATTCTTCTGGA
GAAAACCTTATAAATGTAATGAGTGTGGCAAATCTTTCATTAGTCGCTCAGGCCTCACTAAACATCAGACAAAA
CATACTGCAGAGAGTCTTAAAAACAAATTCATGTGGAAAAGCCTTTAGATGTTCTCCTAACTTCTGGTCTTTAC
CAAATTCATACTGGAGAGAAACCTTACAAATGTAATCAGTGTGGTAAATTTAA

6062/6881
FIGURE 5596

MPYKCIECGQVFNSTSNLARHRRRIHTGEKPYKCNECGKVFRHQSTLARHRSIHTGEKPYVCNECGKAFRVRSILV
NHQKMHTGDKPYKCNECGKAFIERSKLVYHQRNHTGEKPYKCIECGKAFGRFSCLNKHQMIHSGEKPYKCNECGK
SFISRSGLTQKHQTKHTAESLTKTFNVEKPLDVLLTSGFK

6063/6881
FIGURE 5597

AGCACAGCGCTGGCCGCGAGTCTGACAGGAAAGGGACGGAGCCAAGATGGCGGCGGCCGACGGCGACGACTCGCTG
TACCCCATCGCGGTGCTCATAGACGAACTCCGCAATGAGGACGTTTCTGCTTTCCTTACAGATACCATCTAT
TCCACCATCGCCTTGGCCCTTGGGGTTGAAAGGACCCGAAGTGAGCTTCTGCCTTTCTTACAGATACCATCTAT
GATGAAGATGAGGTCTCTGCTGCGCCCTGGCAGAACAGCTGGGAACCTTCACTACCTGGTGGGAGGCCAGAGTAC
GTGCACTGCCTGCTGCCACCGCTGGAGTCGCTGGCCACAGTGGAGGAGACAGTGGTGCGGGACAAGGCAGTGGAG
TCCTTACGGGCCATCTCACACGAGCACTCGCCCTCTGACCTGGAGGCGCACTTTGTGCCGCTAGTGAAGCGGCTG
GCGGGCGGCGACTGGTTCACCTCCCGCACCTCGGCCCTGCGGCCTCTTCTCCGCTCTGCTACCCCGAGTGTCCAGT
GCTGTGAAGGCGGAACCTTCGACAGTACTTCCGGAACCTGTGCTCAGATGACACCCCATGGTGCGGCGGGCCGCA
GCCTCCAAGCTGGGGGAGTTTGCCAAGGTGCTGGAGCTGGACAACGTCAAGAGTGAGATCATCCCATGTTCTCC
AACCTGGCCTCTGACGAGCAGGACTCGGTGCGGCTGCTGGCGGTGGAGGCGTGCGTGAACATCGCCAGCTTCTG
CCCCAGGAGGATCTGGAGGCCCTGGTGATGCCCCTCTGCGCCAGGCGCTGAAGACAAGTCTGGCGCGTCCGC
TACATGGTGGCTGACAAGTTCACAGAGCTCCAGAAAGCAGTGGGGCCTGAGATCACCAAGACAGACCTGGTCCCT
GCCTTCCAGAACCTGATGAAAGACTGTGAGGCCGAGGTGAGGGCCGCGAGCCTCCCAAGGTCAAAGAGTTCTGT
GAAAACCTCTCAGCTGACTGTGCGGAGAATGTGATCATGTCCAGATCTTGCCCTGCATCAAGGAGCTGGTGTCC
GATGCCAACCAACATGTCAAGTCTGCCCTGGCCTCAGTCATCATGGGTCTCTCTCCCATCTTGGGCAAAGACAAC
ACCATCGAGCACCTCTTGCCCTCTTCTGGCTCAGCTGAAGGATGAGTGCCCTGAGGTACGGCTGAACATCATC
TCTAACCTGGACTGTGTGAACGAGGTGATTGGCATCCGGCAGCTGTCCAGTCCCTGCTCCCTGCCATTGTGGAG
CTGGCTGAGGACGCCAAGTGGCGGGTGGGCTGGCCATCATTGAGTACATGCCCCCTCTGGCTGGACAGCTGGGA
GTGGAGTTCTTTGATGAGAACTTAACCTCTTGTGCATGGCCTGGCTTGTGGATCATGTATATGCCATCCGCGAG
GCAGCCACCAGCAACCTGAAGAAGCTAGTGGAAGTTTGGGAAGGAGTGGGGCCATGCCACAATCATCCCAAG
GTCTTGGCCATGTCCGGAGACCCCAACTACCTGCACCGCATGACTACGCTCTTCTGCATCAATGTGCTGTCTGAG
GTCTGTGGGCGAGGACATCACCACCAAGCACATGCTACCCACGGTTCTGCGCATGGCTGGGGACCCGGTTGCCAAT
GTCCGCTTCAATGTGGCCAAGTCTCTGCAGAAGATAGGGCCCATCCTGGACAACAGCACCTTGCAGAGTGAAGTC
AAGCCCATCCTAGAGAAGCTGACCCAGGACCAGGATGTGGACGTCAAATACTTTGCCAGGAGGCTCTGACTGTT
CTGTCTCTCGCCTGATGCTGGAAGAGGAGCAAACACTGGCCTCTGGTGTCCACCCTCCAACCCCAAGTCCCT
CTTTGGGGAGACACTGGGGGGCCTTTGGCTGTCACTCCCTGTGCATGGTCTGACCCAGGCCCTTCCCCAGCA
CGGTTCTCTCTCCCCAGCCTGGGAAGATGTCTCACTGTCCACCTCCCAACGGGCTAGGGGAGCACGGGGTTGG
ACAGGACAGTGACCTTGGGAGGAAGGGGCTACTCCGCC

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FIGURE 5598

GCAAGACCTTCAGTCAAACGTCATACCTTGTGTACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTG
AAGAATGTGACAAAGCTTTCAGTTTCAAATCAAACCTTGAAAGACATAGGAAAATTCATACTGGAGAGAAACCTT
ACAAGTGTAATGAATGCAGCAGGACCTTTAGTCGGAAGTCATCCCTTACACGCCATCGTAGACTTCATACTGGAG
AGAAAACCTTATAAGTGTAATGATTGTGGCAAGACCTTCAGTCAGATGTCATCCCTTGTATACCATCGTAGACTTC
ATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAATCGAACCTTGAAAGACATA
GGAGAATTCATACTGGAGAGAAACCTTACAAGTGTAATGATTGTGGCAAGACCTTCAGTCAGACATCATCCCTTG
TATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAAT
CAAACCTTGAAAGACATAGGATAATTCATACTGGAGAGAAACCTTTACAAGTGTAATGAATGTGGCAAGACCTTTA
GTCGGAAGTCATCCCTTACACGCCATTGTAGACTTCATACTGGAGAGAAACCTTACCAGTGTAATGAGTGTGGCA
AAGCCTTTCGTGGGCAGTCAGCACTTATTTACCATCAAGCAATCCATGGTATAGGGAACTTTACAAATGTAATG
ATTGTACCAAGTCTTTAGTAATGCTACAACCATTGCAAATCATTGGAGAATCCATAATGAAGAGAGATCGTACA
AGTGAATAGATGTGGCAAATTTTTAGACATCGTTTCATACCTTGCAGTTCATTGGCGAACTCATAGTGGAGAGA
AACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAATCAAACCTTCAAAGACATAGGAGAATTCATA
CTGGAGAGAAACCTTACAGGTGTAATGAATGTGGCAAGACCTTTAGTCGGAAGTCATACCTTACATGCCATCGTA
GACTTCATACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGGCAAGACCTTCGGTCGAAAATTCAGCCCTTATAA
TTCACAAGGCAATTCATACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGGCAAGGCCTTCAGTCAGAAAGTCAT
CCCTTACATGCCATCTTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGACAAAGTTTTTCAGTC
GCAAAATCAAGCCTTGAAAAACACAGGAGAATTCATACTGGAGAGAAACCATACAAATGTAAAGGTTTGTGACAAAG
CTTTTGGGCGTGATTACACCTGGCACAACATACTAGAATTCACACTGGAGAGAAACCTTACAAGTGTAATGAAT
GTGGCAAGAACTTCCGTCACAATTCAGCCCTTGTAATTCATAAGGCAATTCATAGTGGAGAGAAACCTTACAAGT
GTAATGAGTGTGGCAAGACCTTCCGTCACAATTCAGCCCTTGAAATTCATAAGGCAATTCATACTGGAGAGAAAC
CTTACAAGTGTAATGTGGCAAGGTTTTTAATAGAAAAGCAAACCTTTCACGTCATCATAGACTTCATACTG
GAGAGAAACCTTACAAGTGTAATAATGTGGTAAGGTTTTTAATCAACAAGCACACCTTGCATGTCATCATAGAA
TTCATACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGGCAAAACCTTCCGTCACAATTCAGTCCTTGTAATTC
ATAAGACAATTCATACTGGAGAGAAACCTTACAAGTGTAATGAATGTGGCAAGGTTTTTAATCGAAAAGCAAAC
TTGCACGTCATCATAGAAATTCATACTGGAAAGAAACATTAGAAATATGAAGAATGTGACAAAGTTTACAGTTGTA
AATCAAGTCTTGAAAGACAGGAGAATTCATACTGGAGAGAAAGCTTACAAATGTAAGAGTTTGTGACAAGAATCT
TGGGCGTGATTACACCTGGCCCAACAACTAGAAGTCACACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGG
CAAAGCCTTTAGTGGGCAGTCAACACTTATTCACCATCAGGCAATCCATGGTATAGGGAACTTTACTAATGTAA
TGATTATCACAAAGTCTTCAGTAACACTACAACCGTTTTCAAATCATTGGAGAATCCATAATGAGAGATTTTGAAA
GTGTAATAAATGTGGCAAATTTTTCAGACATTGTTTCATACCTTGCAGTTTCATCGGTGAACCTCATGCTGGAGAGAA
ACCTTACAAATGTCATGATTGTGGCAAGGTCTTCAGTCTAGCTTCATCTTATGCAAAACAGGAGACTTCATACAG
GAGACAACTTCACAAGTATGATGATTGCAGCAAAGCCTTTACTTCAGTTTCACACCTAATTAGACATCAGAGAA
TCCATACTGGACAGAAATCTTACAATGTCATCAGTGTGGCAAGGTCTTCAGTCTGAGATCACCCCTTAAGGAAC
ATCAGAAAATTCATTTTTGAGATGATTGTTCCAAATGCAATGAGTATAGCAAACCATCAAGCATTAATTGGCATT
AGAGTCAATTCAGCATTGACTTGAGTTTGAATTGACTTAACATTGAGTTCAAGCATTAATTGACATTAAAGTGTT
TATGTTAAGAAGATTGGGCCAGGCGGGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGACCAATAG
ATCACTTGAGGTGAGGAGTTTGAGACCAGACTGGCCAACAGACATGAGTCACTTTTCCCACCCTGTATTTGTTT
CTTTAATAAAAACTGTTACGGGTT

6065/6881
FIGURE 5599

MSSLVYHRRRLHTGEKPYKCEECDEAFSFKSNLERHRRRIHTGEKPYKCNDGKTFSTSSLVYHRRRLHTGEKPYKC
EECDEAFSFKSNLERHRIIHTGEKLYKCNECGKTFSRKSSLTRHCRRLHTGEKPYQCNECGKAFRGQSALIYHQAI
HGIGKLYKCNDCHQVFSNATTIANHWRIHNEERSYKCNRCGKFFRHRSYLAVHWRTHSGEKPYKCEECDEAFSFK
SNLQRHRRRIHTGEKPYRCNECGKTFSRKSYLTCHRRRLHTGEKPYKCNECGKTFGRNSALIIHKAIHTGEKPYKCN
ECGKAFSQKSSLTCHLRLHTGEKPYKCEECDKVFSRKSSLEKHRRRIHTGEKPYKCKVCDKAFGRDShLAQHTRI
TGEKPYKCNECGKNFRHNSALVIHKAIHSGEKPYKCNECGKTFRHNSALEIHKAIHTGEKPYKCSECGKVFNRKA
NLSRHHRLHTGEKPYKCNKCGKVFNQQAHLACHHRIHTGEKPYKCNECGKTFRHNSVLVIHKTIHTGEKPYKCNE
CGKVFNRKAKLARHHRIHTGKKH

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FIGURE 5600

AGAAACAGTGGTGCGCGGAGAGGAGAGGCCTCGGGATGTCCTCTGGCAGATGAGCTCTTAGCTGATCTCGAAGAGG
CAGCAGAAGAGGAGGAAGGAGGAAGCTATGGGGAGGAAGAAGAGGAGCCAGCGATCGAGGATGTGCAGGAGGAGA
CACAGCTGGATCTTTCCGGGGATTTCAGTCAAGACCATCGCCAAGCTATGGGATAGTAAGATGTTTGCTGAGATT
TGATGAAGATTGAGGAGTATATCAGCAAGCAAGCCAAAGCTTCAGAAGTGATGGGACCAGTGGAGGCCGCGCCTG
AATACCGCGTCATCGTGGATGCCAACAACCTGACCGTGGAGATCGAAAACGAGCTGAACATCATCCATAAGTTCA
TCCGGGATAAGTACTCAAAGAGATTCCCTGAACTGGAGTCCTTGGTCCCCAATGCACTGGATTACATCCGCACGG
TCAAGGAGCTGGGCAACAGCCTGGACAAGTGCAAGAACAATGAGAACCTGCAGCAGATCCTCACCAATGCCACCA
TCATGGTCGTCAGCGTCACCGCCTCCACCACCCAGGGGCAGCAGCTGTTCGGAGGAGGAGCTGGAGCGGCTGGAGG
AGGCCTGCGACATGGCGCTGGAGCTGAACGCCTCCAAGCACCGCATCTACGAGTATGTGGAGTCCCGGATGTCCT
TCATCGCACCCAACCTGTCCATCATTATCGGGGCATCCACGGCCGCCAAGATCATGGGTGTGGCCGGCGGCCTGA
CCAACCTCTCCAAGGTGCCCGCCTGCAACATCATGCTGCTCGGGGCCAGCGCAAGACGCTGTCGGGCTTCTCGT
CTACCTCAGTGCTGCCCCACACCGGTACATCTACCACAGTGACATCGTGACAGTCCCTGCCACCGGATCTGCGGC
GGAAAGCGGCCCCGGCTGGTGGCCGCCAAGTGACACTGGCAGCCCGTGTGGACAGTTTCCACGAGAGCACAGAAG
GGAAGGTGGGCTACGAACTGAAGGATGAGATCGAGCGCAAATTCGACAAGTGGCAGGAGCCGCCGCTGTGAAGC
AGGTGAAGCCGCTGCCTGCGCCCCCTGGATGGACAGCGGAAGAAGCGAGGCGGCCGAGGTACCGCAAGATGAAGG
AGCGGCTGGGGCTGACGGAGATCCGGAAGCAGGCCAACCGTATGAGCTTCGGAGAGATCGAGGAGGACGCCTACC
AGGAGGACCTGGGATTTCAGCCTGGGCCACCTGGGCAAGTCGGGCAGTGGGCGTGTGCGGCAGACACAGGTAAACG
AGGCCACCAAGGCCAGGATCTCCAAGACGCTGCAGCGGACCCTGCAGAAGCAGAGCGTCGTATATGGCGGGAAGT
CCACCATCCGCGACCGCTCCTCGGGCACGGCCTCCAGCGTGGCCTTACCCCCACTCCAGGGCCTGGAGATTGTGA
ACCCACAGGCGGCAGAGAAGAAGGTGGCTGAGGCCAACCAGAAGTATTTCTCCAGCATGGCTGAGTTCTCAAGG
TCAAGGGCGAGAAGAGTGGCCTTATGTCCACCTGAAATGACTGCGTGTGTCCAAGGTGGCTTCCCACTGAAGGGAC
ACAGAGGTCCAGTCTTCTGAAGGGCTAGGATCGGGTTCTGGCAGGGAGAACCTGCCCTGCCACTGGCCCCATTG
CTGGGACTGCCCAGGGAGGAGGCCTTGGAAGAGTCCGGCCTGGCTTCCCCCAGGACCGAGATCACCGCCAGTAT
GGGCTAGAGCAGGTCTTCATCATGCCTTGTCTTTTTTAACTGAGAAAGGAGATTTTTTGAAAAGAGTACAATTAA
AAGGACATTGTCAAGAAAAAAAAAAAAAAAAAAAAA

6067/6881
FIGURE 5601

MSLADELLADLEEAEEEEEGGSYGEEEEPAIEDVQEETQLDLSGDSVKTI AKLWDSKMFAEIMMKIEEYISKQA
KASEVMGPVEAAPEYRVIVDANNLTVEIENELNIIHKFIRDKYSKRFPESLVPNALDYIRTVKELGNSLDKCK
NNENLQQILTNATIMVSVTASTTQGQQLSEEEELERLEEACDMALELNASKHRIY EYVESRMSFIAPNLSIIIGA
STAAKIMGVAGGLTNLSKVPACNIMLLGAQRKTL SGFSSTSVLPHTGYIYHSDIVQSLPPDLRRKAARLVAAKCT
LAARVDSFHSTEGKVG YELKDEIERKFDKWQEP PPVKQVKPLPAPLDGQRKKRGGRRYRKMKERLGLTEIRKQA
NRMSFGEIEEDAYQEDLGFSLGHLGKSGSGRVRQTQVNEATKARISKTLQRTLQKQSVVYGGKSTIRDRSSGTAS
SVAFTPLQGLEIVNPQAAEKKVAEANQKYFSSMAEFLKVKGEKSGLMST

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FIGURE 5602

GTTCTCGACTATTGCCGAAGTGAGCCGAAGTTTGTGGCCCCGCTTCCGGAGAACTCAAGCTCCCGATTGTGCCCG
AAGGAACCCGAAGGGAGACCCCGCCTCATTCCCTACGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCT
GTTCCCTTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCAGAGCCCGAAGGCCCGCCCTTCACGTA CTGGAG
CTCGGATCCCACTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTT
CCCTGCCCGCCCGGGGCCCTGACCGTGGCTTCTTCCCGGCCTGATCTGCGCAGCCCGCGGGCGCCAGAAGGA
GCAGGCGGCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCG
GCCGCTCCTGCCCGGCGAGCAGCTCAGACCATGTGCGCTGAAGAATGGACGTATCTAGTGGTTCTTCTTATCTC
CATCCCCATCGGCTTCTCTTTAAGAAAGCCGGTCTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCCTGGG
GCTCACCTGTTCACCTGTGGCCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGGCCCTCATTCA
GGCCAGCCCTGCTCCTGCCACGCCCTGGCTCTGGCCTGGACTTTCTCCTATCTCCTGTTCTTCCGAGCCCTCAG
CCTCCTGGGCTGCCCACTCCACGCCCTTACCAATGCCGTCCAGCTGCTGCTGACGCTGAAGCTGGTGAGCCT
GGCCAGTGAAGTCCAGGACCTGCATCTGGCCAGAGGAAGGAAATGGCCTCAGGCTTCAGCAAGGGGGCCACCCT
GGGGCTGCTGCCCGACGTGCCCTCCCTGATGGAGACACTCAGCTACAGCTACTGCTACGTGGGAATCATGACAGG
CCCGTTCTTCCGCTACCGCACCTACCTGGACTGGCTGGAGCAGCCCTTCCCGGGGCGAGTGCCAGCCTGCGGCC
CCTGCTGCGCCGCGCCTGGCCGGCCCCGCTCTTGGCCTGCTGTTCTGCTCTCCTCTCACCTCTTCCCGCTGGA
GGCCGTGCGCGAGGACGCTTCTACGCCCCGCCGCTGCCCGCCCCGCTCTTCTACATGATCCCCGCTTCTTTCGC
CTTCCGCATGCGCTTCTACGTGGCTGGATTGCCGCCGAGTGGGCTGCATTGCCGCCGGCTTTGGGGCCTACCC
CGTGGCCGCCAAAGCCCGGGCCGGAGGCGGCCCCACCCTCCAATGCCACCCCCCAGCAGTCCGGAGAAGGCGGC
TTCTTGGAGTATGACTATGAGACCATCCGCAACATCGACTGCTACAGCACAGATTTCTGCGTGCGGGTGCGCGA
TGGCATGCGGTACTGGAACATGACGGTGCAGTGGTGGCTGGCGCAGTATATCTACAAGAGCGCACCTGCCCGTTC
CTATGTCTGCGGAGCGCCTGGACCATGCTGCTGAGCGCCTACTGGCACGGCCTCCACCCGGGCTACTACCTGAG
CTTCTGACCATCCCGCTGTGCCTGGCTGCCGAGGGCCGGCTGGAGTCAGCCCTGCGGGGGCGGCTGAGCCAGG
GGGCCAGAAGGCCTGGGACTGGGTGCACTGGTTCTTGAAGATGCGCGCCTATGACTACATGTGCATGGGCTTCGT
GCTGCTCTCCTTGGCCGACACCCCTTCGGTACTGGGCCTCCATCTACTTCTGTATCCACTTCTGGCCCTGGCAGC
CCTGGGGCTGGGGCTGGCTTTAGGTGGGGGCGAGCCCCAGCCGGCGGAAGGCAGCATCCAGCCACCAGCCTTGC
CCCAGAGAAGCTCCGGGAGGAGTAAGCTGTACGACGCTCCCTCTGCCAGCTGGTCCCGGAATTCTGTGAACCA
GGCTGCTGTCTCTCCCCAGAAAGAGTCTTACCTTGGAGAGGGTCTGGAGAGAATTTCTCTTCCCCAGCTAA
ATACCCTGCCTGCAACTGAAGCAGACCCGGGGGTGTCTCCCTGCCCTCTGCCAGAGGCCACCTCCACTCCTAC
AAAATCAAAGTATTGTCCAGACAAGAGTCACTGGCCCTGCTCCAGCTTCTGGGTATCCAGAGAGCACTGCACTT
CCCCAAAACGGAAGGGGGCCCTGGGCGAGTGGGTTTTGGGCAAATTCCTTTCTTGCATCCACAATGTGGGGTCG
GAGCTTGGGGGCGAGTCTGGGAGTGGGAAGCCTCTTCTTGTGTCTTTCGCTCCACTTTTAGCTCATCGCACCA
ATATTGCAGACTTGAAGGAAGCATAAGCTTCCCATTTACAAAGGGGAACTGAGGTGCGGGTGCGCGGGCCTG
GGGACGGCCGTCCCATGGCTTCCATCTGAGCCACCTCGGGACCCAGCGCTCCTGGCGCCCTCTTCTCATCGCTT
GGCCTATGACAGGTACCGTGTGTAAATCTTTCCCAATAAAGTGTTCACAAAG

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FIGURE 5603

CCCGCGCAGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTGCGAAAAC TTATGT
GACCCCGCGGAGACCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAA
CAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCGGAAC TGTGACGCTTGA
TGAGAAGGACCCACGGCGTCTGTTTGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGA
GGGCAAGATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGT
CTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAA
GCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCACATCGACTTCTCTCTGCGCTCTCC
CTACGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGAGA
CGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGTTTTCTGCCAAATAAACAG
GATCAGCGCTTTA

6070/6881
FIGURE 5604

MPVARSWVCRKTYVTIPRRPFEEKSRLDQELKLIGEYGLRNKREVVRVKFTLAKIRKAARELLTLDEKDPRRLFEGN
ALLRRLVRIGVLDEGKMKLDYILGLKIEDFLERRLQTQVFKLGLAKSIHHARVLIRQRHIRVRKQVNVNIPSFIVR
LDSQKHIDFSLRSPYGGGRPGRVKRKNAKKGQGGAGAGDDEED

6071/6881
FIGURE 5605

CCGAAGGGAGACCCCGCCTCATTCTCACGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCTGTTCCCC
TTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCCGAGCCCGAAGGCCCCCCTTCACGTACTCGGAGCTCGGAT
CCCAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTTCCCTGCC
CGCCCGGGGCCCTGACCGTGGCTTCTTCCCGGCCTGATCTGCGCAGCCCGGCGGGCGCCAGAAAGGAGCAGGCG
GCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCGGCCGCCT
CCTGCCCCGCGAGCAGCTCAGGTCTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCCTGGGGCTCACCTGT
TCACCTGTGGCCCCCACACTTTGCATTCTCTGGTCACCATCTCGGGACCTGGGCCCTCATTACAGGCCAGCCCT
G

6072/6881
FIGURE 5606

LAPPCSEPEGPPLHVLGARIPVWTWTRIPLPTRALGFCSGASSLPARGPDRGFFPGLICAARRAPRRSRRRGAL
GGGGVAGAAAASGLGLLGRLLPGEQLRSWAEEMGSSRCGPGAHPVHLWPPHFAFSGHHPRDLGPHSGPA

6073/6881
FIGURE 5607

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTGCAAACTTATGTGACCCCG
CGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAACAAACGT
GAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCCGGGAACCTGCTGACGCTTGATGAGAAG
GACCCACGGCGTCTGTTCGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGAGGGCAAG
ATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGTCTTCAAG
CTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAAGCAGGTG
GTGAACATCCCGTCCTTCATTGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGA
GACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCG

6074/6881
FIGURE 5608

GGCACGAGGCTCAAGATTCACAGCATCTCAGACGCAGCCTAGGTTCCCATGGACTTGTCATAAGACAAAAGAGGA
CAGCTGTGCTGAGGGGGCAGGGTCTGCAGCCTCCTGGCTGTGCCAGGACCACACCTACCAAGGCCGCACCAGGAT
GTCGGACACCGAGGAGCAGGAATATGAGGAGGAGCAGCCGGAAGAGGAGGCTGCGGAGGAGGAGGAAGAAGA
GGAACGCCCCAAACCAAGCCGCCCGTGGTGCCTCCTTTGATCCCGCCAAAGATCCCAGAAGGGGAGCGCGTTGA
CTTCGATGACATCCACCGCAAGCGCATGGAGAAAAGACCTGCTGGAGCTGCAGACACTCATCGATGTACATTTTGA
GCAGCGGAAGAAGGAGGAAGAGGAGCTGGTTGCCTTGAAGGAGCGCATTGAGCGGCGCCGGTCAGAGAGAGCCGA
GCAACAGCGCTTCAGAACTGAGAAGGAACGCGAACGTCAGGCTAAGCTGGCGGAGGAGAAGATGAGGAAGGAAGA
GGAAGAGGCCAAGAAGCGGGCAGAGGATGATGCCAAGAAAAAGAAGGTGCTGTCCAACATGGGGGCCCATTTTGG
CGGCTACCTGGTCAAGGCAGAACAGAAGCGTGGTAAGCGGCAGACGGGGCGGGAGATGAAGGTGCGCATCCTCTC
CGAGCGTAAGAAGCCTCTGGACATTGACTACATGGGGGAGGAACAGCTCCGGGAGAAAGCCCAGGAGCTGTCGGA
CTGGATCCACCAGCTGGAGTCTGAGAAGTTCGACCTGATGGCGAAGCTGAAACAGCAGAAATATGAGATCAACGT
GCTGTACAACCGCATCAGCCACGCCCAGAAGTTCGGAAGGGGGCAGGGAAGGGCCGCGTTGGAGGCCGCTGGAA
GTGAGGATGCCGCCCCGGACAGTGGCACCTGGGAAGCCTGGGAGTGTTTGTCCCATCGGTAGCTTGAAATAAACG
CTCCCCTCAGACACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

6075/6881
FIGURE 5609

MSDTEEQYEEEQPEEEAAEEEEEEEEERPKPSRPVVPPLIPPKIPEGERVDFDDIHRKRMEKDLELQTLIDVHF
EQRKKEEELVALKERIERRRSERAEQQRFRTAKERERQAKLAEEKMRKEEEEAKKRAEDDAKKKKVLSNMGAF
GGYLVKAEQKRGKRQTGREMKVRILSERKKPLDIDYMGEELREKAQELSDWIHQLESEKFDLMAKLKQQKYEIN
VLYNRISHAQKFRKGAGKGRVGGRWK

6076/6881
FIGURE 5610A

CGCCCAGCTAATTTTTGTATTTTTGGTAGAGACAGGGTTTTGCCATGTTGCCCAGGCTGGTCTTGAACCTTCTGAC
CTCAAGTGATATGCCTGCCTCAGCCTCCCAAGGGGTACCTCCCCACAGTCCTGGAGCAGACTGTGGCCCCCTCAGG
GCCTTGAGTGCCACGCTGGTGGGGCAGCTCTTGCTCTTGAGCCGTCAGGCACCGTGTGAAAGTTTGGAGGAGGGA
GGCAGGAGGTGAGGTTGGAAGTTGAGCAAGGTTCCAGGAGTCAGCCGGAGCTGGGGCAGCATACGGGGTTGCAAG
TGAAGCCGCTGAGAGGCAAAAGGGATGAGTGTTAGCTGCTGTGGGATTGGGAAGCGCAGGAGCTTCAGGACCAGC
TTGTCTTGGGGGTGGTAAGGAGCCTAGGATGGGATGGTTGGGTGTTAGCAGGGTGGAGGAGGCCCTGGTGTGGGCC
CTTGTCTTCTGCGTCACCCTGTCTCTGCCCTTTCCCTTTCCTGGACAGGGGTCTCTGCAGTTCCCAGAAACCCAG
TGCCCCGTGCAGAGAAGAGGGTGGAGCCTTGCCGCCCCCTGCCCCGGCCTCCGACCCGAGCCCCACCCGCTG
TGCTTGCTCCACAGTACCCAGTGTGGCCTGCGAGATTCTGACCTCAGATGTGCCCCAGATCAATGATGCCCTG
GGTGCCGATGAGTCCCTTCTGAACCGGCTCTACGGCTTCTGTCAGAGCACCGGCAGCCTCAACCCACTGCTGGCC
AGCTTCTTCAGCAAGGTCATGGGCATCCTCATCAACCGCAAGACAGACCAGCTCGTGTCTTTCTTCGGAAGAAG
GATGACTTCTGAGACCTGCTGCTGCAGCACATTGGCACCTCGGCCATCATGGACCTCCTGCTGCGCCTGCTCACC
TGTGTGGAGCGGCCCTCAGCTGAGGCAGGATGTTGTCAATTGGCTCAACGAGGAGAAGATCGTCCAGCGGCTGATT
GAGCAGATCCACCCGTCGAAGGATGAGAATCAACATTCCAACGCATCCAGTCCCTGTGTGACATCATCCGCTG
AGCCGGGAGCAGATGATCCAAGTCCAGGACAGCCAGAGCCTGACCAACTGCTGGCCACCCTGGAGAAGCAGGAG
ACGATTGAGCAGCTCTTAAGCAACATGTTTCAGAGGGGAGCAGAGCCAGTCTGTATCGTCAGTGGGATCCAGGTG
CTGCTGACCCTGCTGGAGCCCAGGAGGCCGAGGTCCGAGTCCGTGACCGTGAACAGCTTCTTCAGCAGTGTGGAT
GGGCAGCTGGAGCTCCTGGCCCAGGGGGCCCTGGAAAGCACTGTGTCCAGTGTGGGCGCCTTGACGCCCCCTACGC
CCGCGGCTCAGCTGCTTCCACCAGCTCCTGCTGGAGCCTCCCAAGCTGGAGCCGCTACAGATGACATGGGGCATG
CTGGCTCCGCTCTGGGCAACACGCGGCTGCACGTGGTCAAGCTCCTGGCCAGTGCCCTGAGCGCCAATGATGCA
GCCCTGACGCACGAGCTCCTGGCACTGGACGTGCCAACACCATGCTGGACCTCTTCTTCCATTATGTCTTCAAC
AACTTCTTGATGCCCAAGTAGAGGGATGCGTGAGCACCATGCTGAGCTTGGGGCCACCTCCTGACAGCAGCCCT
GAGACGCCCATCCAAAACCTGTTGTGAAACATCTGCTGCAGCAGTGCCGCTGGTGGAGCGGATCCTGACGTCC
TGGGAGGAGAACGACCGTGTACAGTGTGCGGGAGGCCCTCGGAAAGGCTACATGGGTACCTGACAAGAGTGGCC
GGTGCCCTGGTGCAGAACACGGAGAAGGGGGCCCAATGCAGAGCAGCTGCGGCAGCTGCTGAAGGAGCTGCCCAGC
GAGCAGCAGGAGCAGTGGGAAGCCTTCGTATCGGGGGCCCTGGCGGAGACCAACAAGAAGACATGGTGGACCTG
GTGAACACCCACCACCTACCTCCTCCAGTGACGATGAGGACGACCGGCTCAAGGAGTTCAACTTCCCTGAGGAG
GCTGTGCTGCAGCAGCCTTCATGGACTTCAGATGCAGCGCATGACCTCTGCCTTCATTGACCATTTCGGCTTC
AATGATGAGGAGTTTGGGGAGCAGGAGGAGAGTGTGAACGCACCTTTTGACAAGACAGCCAACATCACCTTCTCC
CTCAATGCTGACGATGAGAACCCCAACGCCAACCTACTTGAGATATGCTACAAGGACCGCATCCAGCAGTTTGAT
GATGATGAGGAAGAGGAGGACGAGGAAGAGGCCAGGGCTCAGGGGAGTCTGATGGAGAAGATGGCGCCTGGCAG
GGCAGCCAGCTGGCCAGGGGGGCGCTCTGGGCCAGCCACCTGGTGTCCGGAGTGGAGGCAGCACAGACAGTGAG
GACGAAGAAGAGGAGGACGAGGAGGAGGAGGAAGACGAGGAGGGCATTGGCTGTGCAGCCCGTGGAGGGGCCACC
CCTCTGTCTACCCAGCCCTGGCCCTCAGCCTCCAGGCCCCAGCTGGACAGCCACCTTTGACCCAGTGCCCTACA
GATGCCCCGACCAGCCCCGAGTCTCCGGGGAGGAAGAGCTGCACACTGGGCCTCCAGCCCCACAGGGGGCCCTC
AGTGTGCCCCAGGGCCTCCCCACTCAGAGCCTGGCCAGCCCTCCTGCCCGTGACGCCCTGCAGCTCAGGTCTCAG
GACCCACACCCCCCTCAGCACCTCAGGAAGCCACAGAAGGCAGCAAAGTCACGGAGCCCTCAGCCCTTGCCAG
GCCTTGGTTAGCATCGGGGACCTTCAGGCCACCTTCCACGGGATCCGTTCTGCCCCAGCTCCTCGGACAGTGCA
ACCAGAGACCCCTCTACCTCTGTCCCAGCCTCCGGGGGCCACCAGCCCCCCCCAGACCACAGAAGGGGAGAAGAGC
CCAGAGCCCTTGGGGCTTCCCCAAAGCCAGAGTGCCAGGCCCTCACGCCCTCCTCCGATACCCAATGGCTCTGCC
CCGGAAGGGCCTGCATCCTCAGGCTCCCAATAGCTGCTGCTGGTGCAGCGCGGCGCCAAATCTTCCGTCTCCCG
TGGATCTCCCGGGGTGGGGGCAGGGCGGGTCCACGATGGCCCCATTGCCCTCATCACCTGACACCCACAT
TCTCTCTCTGGACCCCCAGGAGGCTGGTGCCAGGGAGACAGGCCAACCCACCCCATTTGCACTGAGAAGAGA
AGTTTTGGAGCGTTGCCTCCTAGATAAAGATACAGAGAGTCAAATAGAGAGAATGGAGAGAGAGAAACATATAT
TATATATTATATAGAGAGAGGGAGGAGAGCGAGAGAGAGTGAAGACACCGAACTGGGCTGGCGGCTCCAAAGCAC
AGCCTTCCCTGTTCCGTCCCAGCGGAGCTGGTGTAGGGGTCCCAAGGTTGCCACCCACGTGCCCAGCTGTCCC
ACGCTGCAGCGCAGACGGCCACGCCACACCCGGCCTTTTAGCTCAGGTCCACCATGGGGGACGGCCAGCGTGG
GTGGGGGTGCCAGAGGGTCCCGAGTGGGGGCGCTGCCTTTGCCAGACCCTGCACCTTCAACCAGGCCAGTCCGG

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FIGURE 5610B

CTCTGGGGAGCAGGGGCCTCCCCGGCAACAGCCCCAGGGGCCTTGAGGGTCTGAGGTCCCAGCCCTGTTGCCAAG
TGACCTTGTCCCCAGCTCCCTCCTCCCAGGCTGGTGTGAGTGTGCGTGCGTTTGTGCCGAGCTTCTATTTCATAT
TGCAAATATAAATAAAGGAAGGCAGTTTACG

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FIGURE 5611

MGILINRKTDQLVSFLRKKDDFVDLLLQHIGTSAIMDLLLRLLTCVERPQLRQDVVNWLNEEKIVQRLIEQIHPS
KDENQHSNASQSLCDIIRLSREQMIQVQDSPEPDQLLATLEKQETIEQLLSNMFEGEQSQSVIVSGIQVLLTLLLE
PRRPRSESVTVNSFFSSVDGQLELLAQGALESTVSSVGALHALRPRLSCFHQLLLEPPKLEPLQMTWGMLAPPLG
NTRLHVVKLLASALSANDAALTHELLALDVPNTMLDLFFHYVFNNFLHAQVEGCVSTMLSLGPPPDSSPETPIQN
PVVKHLLQQCRLVERILTSWEENDRVQCAGGPRKGYMGHLTRVAGALVQNTKGPNAEQRLRQLLKELPSEQQEQW
EAFVSGPLAETNKKNMVDLVNTHHLHSSDDEDDRLKEFNFP EEAVLQQAFMDFQMQRMTSAFIDHFGFNDEEFG
EQEESVNAPFDKTANITFSLNADDENPNANLLEICYKDRIQQFDDDEEEDEEEEAQSGSGESDGEDGAWQGSQLAR
GARLGQPPGVRSGGSTDEDEEEDEEEDEEGIGCAARGGATPLSYSPGPQPPGPSWTATFDPVPTDAPTSP
RVS GEEELHTGPPAPQGPLSVPQGLPTQSLASPPARDALQLRSQDPTPPSAPQEATEGSKVTEPSAPCQALVSIG
DLQATFHGIRSAPSSSDSATRDPSTSVPASGAHQPPQTTEGEKSPEPLGLPQSQSAQALTPPP IPNGSAPEGPAS
SGSQ

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FIGURE 5612

GCGGCGCCAGCAGAGTCAGGTGCGGACGACTTTGTCTGTAGGAGCAGCGGCGGCTTGAGGACCCGGGGAGACCC
TCAAGAATCGACCCATCAGGACGCCAGAGCTGCTTCAGCGGTGACCACCTTCTCCCTCTAACACATTCTTCCCTT
CTTCACAAACGGCCCCATGTCAGACGAAGGCTCAAGGGGGAGCCGCCTGCCCCTGGCGCTGCCCCGGCCTCCCAG
GGTTGCTCTTCAGGGGGCGGCGGCGGCGGCGGCGGCTCCTCGGCTGGGGGCTCGGGCAATTCCCGGCCCCCA
CGCAACCTCCAAGGCTTGCTGCAGATGGCCATCACGCGGGCTCTGAAGAGCCAGACCTCTCCAGAACCAGTG
AGTGAGGAGAGGCGTCAGTGGCTGCAGGAGGCCATGTCGGCTGCCTTCCGAGGCCAGCGGGAGGAGGTGGAGCAG
ATGAAGAGCTGCCTCCGAGTGTGTACAGCCCATGCCCCCACTGCTGGGGAGGCCGAGCAGGCGGCCGACCAG
CAAGAGCGAGAGGGGGCCCTGGAGCTGCTGGCCGACCTGTGTGAGAACATGGACAATGCCGCAGACTTCTGCCAG
CTGTCTGGCATGCACCTGCTGGTGGGCCGGTACCTGGAGGCGGGGGCTGCGGGACTGCGGTGGCGGGCGGCACAG
CTCATCGGCACGTGCAGTCAGAACGTGGCAGCCATCCAGGAGCAGGTGCTGGGCCTGGGTGCCCTGCGTAAGCTG
CTGCGGCTGCTGGACCGCGACGCCCTGCGACACGGTGC GCGTCAAGGCCCTCTTCGCCATCTCCTGTCTGGTCCGA
GAGCAGGAGGCTGGGCTGCTGCAGTTCCTCCGCTGGACGGCTTCTCTGTGTTGATGAGGGCCATGCAGCAGCAG
GTGCAGAAAGCTCAAGGTCAAATCAGCATTCTGCTGCAGAACCTGCTGGTGGGCCACCCTGAACACAAAGGGACC
CTGTGCTCCATGGGGATGGTCCAGCAGCTGGTGGCCCTGGTGC GGACAGAGCACAGCCCCCTCCACGAGCAGTG
CTTGAGCCCTGTGCAGCCTGGTGACAGACTTTCGCGAGGGTGTGCGCGAGTGTGCGGAGCCGGAACCTGGGCCTG
GAGGAGCTCCTCCGCCACCGCTGTCAGCTGCTGCAGCAGCATGAGGAGTACCAGGAGGAGCTGGAGTTCTGTGAA
AAGCTGCTACAGACCTGTTTCTCCAGCCCAGCGGACGACAGCATGGATCGGTGAAAACCAGGTGGCTTCTTGCCCC
CTTCTCCGTGGGAACCCCAGGCCTCTTGCTCCCTCCCCACCTACAAGGCCCTCTCCCAAGGGATCGCAGGGCCT
AGGTGCCTGGACCCAGGGTGTGCCAGCCCGTCTCTGTGCAGTCCCTGGAAGGGGCGCTGAGAAAGGCACCAGCTC
CTTGACCCACCTCCCATGCTCTCACTCTCATCCCCGTTCTCTTGTCCACACAGCTCTTCCAATAAAGGTGTTT
CTCTTCTCCTTCTC

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FIGURE 5613

CTCTTTCCGTCTCAGGTCGCCGCTGCGAAGGGAGCCGCCGCCATGTCTGCGCATCTGCAATGGATGGTCGTGCGG
AACTGCTCCAGTTTCCTGATCAAGAGGAATAAGCAGACCTACAGCACTGAGCCCAATAACTGAAGGCCCCGCAAT
TCCTTCCGCTACAACGGACTGATTCACCGCAAGACTGTGGGCGTGGAGCCGGCAGCCGACGGCAAAGGTGTCGTG
GTGGTCATTAAGCGGAGATCCGGCCAGCGGAAGCCTGCCACCTCCTATGTGCGGACCACCATCAACAAGAATGCT
CGCGCCACGCTCAGCAGCATCAGACACATGATCCGCAAGAACAAGTACCGCCCCGACCTGCGCATGGCAGCCATC
CGCAGGGCCAGCGCCATCCTGCGCAGCCAGAAGCCTGTGATGGTGAAGAGGAAGCGGACCCGCCCCACCAAGAGC
TCCTTGAGCCCCCTGCCCCCAGAGCAATAAAGTCAGCTGGCTTTCTCAAAA

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FIGURE 5614

MSAHLQWMVVRNCSSFLIKRNKQTYSTEPNNLKARNSFRYNGLIHRKTVGVPEAADGKGVVVVIKRRSGQRKPAT
SYVRTTINKNARATLSSIRHMIRKNKYRPDLRMAAIRRASAILRSQKPVVMVKRKRTRPTKSS

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FIGURE 5615

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCGGCCGGCCGCAGCCATGAACTCCAACGTGG
AGAACCTACCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTCACCATCGAGGGCCCTGAGGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGAGGCGGGCCCGCTGCTCTTGGAGAAGTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGGCGCCGGCGGGCCAGCGGCAGGGCCGAAGCCGGTCTGGGCCCTGGCCAGTGGCACTGAAGCTTCCTCCACCG
ACCCTGGGGCCCCAGGGGGCCCGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGGCGCTGCGGCGGCTGTAGTGGGCTCTCTTCC
TCCTTCCACCGTGACCCCAACCTCTCCTGTCCCTCCCTCCAACCTCTGTCTCTAAGTTATTTAAATTATGGCTGG
GGTCGGGGAGGGTACAGGGGGCACTGGGACCTGGATTTGTTTTTCTAAATAAAAGTTGGAAAAGCA

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FIGURE 5616

MNSNVENLPPHIIRLVYKEVTTLTADPPDGIKVPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLLGKDFPASPP
KGYFLTKIFHPNVGANGEICVNVLKRDWTAELGIRHVLLTIKCLLIHPNPESALNEEAGRLLLENYEEYAARARL
LTEIHGGAGGPPSGRAEAGRALASGTEASSTDPGAPGGPGGAEGPMAKKHAGERDKKLAAKKKTDDKKRALRALRRL

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FIGURE 5617

AATTCTTTTCAATTCAGAGTTGAGCAAACCTGTGTCTCAAGGAGGTGTGCGCTGCAGGTAGCTGATGTGGCCAGGAT
TTGAACCCACATTTTATATTCTTTGCCATTAGATTCCATTTTTCTTATCTCTTATTTCTCAGCGCCAGGTCTCTT
TTTGTTTTCTGGGCTCTTTCTTCCCTTGGCCTCCCTGCTCTCCCATGTTCTTGTATCTGCTGCTGCCTG
TGTTTTTCTCATTGTGTCTCTGCCTAGCTCCCTCTGCCAGGTTTCTATGTGTCTCTTTCTGTCAGAACTGTCTT
CTATTTCTTCTCAGTCCCTTCTCTGCATTTGTTACATCATCTCTTCATCTTAATGTATTAGGCTGGGGCTGTTT
TGGGACTCCAGAGAGTTACTTTTAACTAGCTACATCTGTCTTCAGGTGCCTGGCTTTCTGGCCTGAGGTGGAAG
CAGAGGCCAGCCTCTCTCCGTCATCCCTATCTCCCTGGGCTTACATCATGGCGGGGCTTTGAAAATCTCCCTCT
GTGGCTTCTTGGAGCCGCATAGATGGGTGATCAGAGCTGGCTCTGGAACCAGGCTGCTCCAGGAGTAAGGAGCCC
AGTCTTTGCATGCAGTGTTGAAAAAGGTAATGTCCCTCTTGTCTGAGCGAGCACCTGGCACACAGCAGGGACCC
AGGCAGTGGGGCTGTTAGGTTCTTATCTCTCCTGAGCCTTGGGCTTCCGCTATCCTTGGGACGCTCTGGTCTTCT
GGCTTCCCCGGTTCTTCTGCGCCCTGGATGCGGTGACCTGCCAGCACCTGCCGCAGCCTTCGTCGGGAGTCG
CCCCATCTCTCCACGCAATCGGCCCTGTGCCCTTGTCTGCTGCAGCCGGGCACCATGTCGACCTCGTCTTGAGG
CGCCAGATGAAGAACATCGTCCACAACCTACTCAGAGGCGGAGATCAAGGTTTCGAGAGGCCACGAGCAATGACCCC
TGGGGCCCATCCAGCTCCCTCATGTGAGAGATTGCCGACCTCACCTACAACGTTGTGCGCTTCTCGGAGATCATG
AGCATGATCTGGAAGCGGCTCAATGACCATGGCAAGAACTGGCGTCACGTTTACAAGGCCATGACGCTGATGGAG
TACCTCATCAAGACCGGCTCGGAGCGCGTGTGCGAGCAGTGCAAGGAGAACATGTACGCCGTGCAGACGCTGAAG
GACTTCCAGTACGTGGACCGCGACGGCAAGGACCAGGGCGTGAACGTGCGTGAGAAAAGCTAAGCAGCTGGTGGCC
CTGCTGCGCGACGAGGACCGGCTGCGGGAAGAGCGGGCGCACGCGCTCAAGACCAAGGAAAAGCTGGCACAGACC
GCCACGGCCTCATCAGCAGCTGTGGGCTCAGGCCCCCTCCCGAGGCGGAGCAGGCGTGGCCGCAGAGCAGCGGG
GAGGAGGAGCTGCAGCTCCAGCTGGCCCTGGCCATGAGCAAGGAGGAGGCCGACCAGGAGGAGCGGATCCGTGCG
GGGGATGACCTGCGGCTGCAGATGGCAATCAGAGGAGAGCAAGAGGGAGACTGGGGGCAAGGAGGAGTCGTCCCTC
ATGGACCTTGCTGACGTCTTACGGCCCCAGCTCCTGCCCCGACCACAGACCCCTGGGGGGGCCAGCACCCATG
GCTGCTGCCGTCCCCACGGCTGCCCCACCTCGGACCCCTGGGGCGGCCCCCTGTCCCTCCAGCTGCTGATCCC
TGGGGAGGTCCAGCCCCACGCCGGCTCTGGGGACCCCTGGAGGCTGCTGCCCTGCAGGACCCCTCAGTTGAC
CCTTGGGGTGGGACCCCCAGCCCCCTGCAGCTGGGGAGGGGCCACGCCTGATCCATGGGGAAGTTCCGATGGTGGG
GTCCCGGTGAGTGGGCCCTCAGCCTCCGATCCCTGGACACCGGCCCCGGCCTTCTCAGATCCCTGGGGAGGGTCA
CCTGCCAAGCCAGCACCAATGGCACAACAGCAGCCGGGGGATTCGACACGGAGCCCGACGAGTTCTCTGACTTT
GACCGACTCCGCACGGCACTGCCGACCTCCGGGAGCAGCGCAGGAGAGCTGGAGCTGCTGGCAGGAGAGGTGCCG
GCCGAAGCCCTGGGGCGTTTGACATGAGTGGGGTCAGGGGATCTCTGGCTGAGGCTGTGGGCAGCCCCCACCT
GCAGCCACACCAACTCCCACGCCCCCACC CGGAAGACGCCGGAGTCATTCTGGGGCCCAATGCAGCCCTCGTC
GACCTGGACTCGCTGGTGAGCCGGCCGGGCCCCACGCCGCTGGAGCCAAGGCCTCCAACCCCTTCTGCCAGGC
GGAGGCCCAGCCACTGGCCCTTCCGTACCAACCCCTTCCAGCCCGCGCTCCCGCGACGCTCACCTGAACCAG
CTCCGTCTCAGTCTGTGCTCCCGTCCCTGGAGCGCCACCCACGTACATCTCTCCCTTGGCGGGGGCCCTGGC
CTGCCCCCATGATGCCCCGGGCCCCCGGCCCAACACTAATCCCTTCTCTCTAATCCAGGGCGGAAGGG
GGCCTGGCTCCATCCGGCTGCCCCATTCCGGCTCCCTGGGAGATCAGTGTTGTGAGTGCATGTGAAATGG

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FIGURE 5618

MSTSSLRRQMKNIVHNYSEAEIKVREATSNDPWGPSSSLMSEIADLTYNVVAFSEIMSMIWKRLNDHGKNWRHVY
KAMTLMEYLIK TGSERVSQQCKENMYAVQTLKDFQYVDRDGKDQGVNVREKAKQLVALLRDEDRLREERAHALKT
KEKLAQTATASSAAVSGSGPPPEAEQAWPQSSGEEELQLQLALAMSKEEADQEERIRRGDDLRLQMAIEESKRETG
GKEESSLMDLADVFTAPAPAPTTPDPWGGPAPMAAAVPTAAPTSDPWGGPPVPPAADPWGGPAPTTPASGDPWRPAA
PAGPSVDPWGGTPAPAAGEGPTPDWGGSSDGGVPVSGPSASDPWTPAPAFSDPWGGSPAKPSTNGTTAAGGFDTE
PDEFSDFDRLRTALPTSGSSAGELELLAGEVPARSPGAFDMSGVVRGSLAEAVGSPPPAATPTPTPTPTRKTPESFL
GENAALVDLDSLVSRLPGTPPGAKASNPFLPGGGPATGPSVTNPFQPAAPPATLTNLRLSPVPPVPGAPPTYIS
PLGGGPGLPPMMPPGPPAPNTNPFL

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FIGURE 5619

GAGGCGAAAAGCTGCACAGGGCCCTACGCGGCCGCCTCAGCATGTCGGACTTCGACGAGTTTCGAGCGGCAGCTCAA
CGAGAATAAAACAAGAGCGGGACAAGGAGAACC GG CATCGGAAGCGCAGCCACAGCCGCTCTCGGAGCCGGGACCG
CAAACGCCGGAGCCGGAGCCGCGACCGGCGCAACC GG GACCAGCGGAGCGCCTCCCGGGACAGGCGACGACGCAG
CAAACCTTTTGACCAGAGGCGCTAAAGAGGAGCACGGTGGACTGATTTCGTTCCCCCGCCACGAGAAGAAGAAGAA
GGTCCGTAAATACTGGGACGTGCCACCCCCAGGCTTTGAGCACATCACCCCAATGCAGTACAAGGCCATGCAAGC
TGCGGGTCAGATTCCAGCCACTGCTCTTCTCCCCACCATGACCCCTGACGGTCTGGCTGTGACCCCAACGCCGGT
GCCCCGTGGTTCGGGAGCCAGATGACCAGACAAGCCCGGCGCCTCTACGTGGGCAACATCCCCTTTGGGCATCACTGA
GGAGGCCATGATGGATTTCTTCAACGCCCCAGATGCGCCTGGGGGGGCTGACCCAGGCCCTTGGCAACCCAGTGT
GGCTGTGCAGATTAACCAGGACAAGAATTTTGCCTTTTTTGAGTTCCGCTCAGTGGACGAGACTACCCAGGCTAT
GGCCTTTGATGGCATCATCTTCCAGGGCCAGTCACTAAAGATCCGCAGGCCTCACGACTACCAGCCGCTTTCCTGG
CATGTCAGAGAACCCCTCCGTCTATGTGCCTGGGGTTGTGTCCACTGTGGTCCCCGACTCTGCCCAACAAGCTGTT
CATCGGGGGCTTACCCAACTACCTGAACGATGACCAGGTCAAAGAGCTGCTGACATCCTTTGGGGCCCCCTCAAGGC
CTTCAACCTGGTCAAGGACAGTGCCACGGGGCTCTCCAAGGGCTACGCCTTCTGTGAGTACGTGGACATCAACGT
CACGGATCAGGCCATTGCGGGGCTGAACGGCATGCAGCTGGGGGATAAGAAGCTGCTGGTCCAGAGGGCGAGTGT
GGGAGCCAAGAATGCCACGCTGGTGAGCCCCCGAGCACCATCAATCAGACGCCTGTGACCCTGCAAGTGCCGGG
CTTGATGAGCTCCAGGTGCAGATGGGCGGCCACCCGACTGAGGTCTGTGCCTCATGAACATGGTGTGCTGCCTGA
GGAGCTGCTGGACGACGAGGAGTATGAGGAGATCGTGGAGGATGTGCGGGACGAGTGCAGCAAGTACGGGCTTGT
CAAGTCCATCGAGATCCCCCGGCCTGTGGACGGCGTCGAGGTGCCCGGCTGCGGAAAGATCTTTGTGGAGTTCAC
CTCTGTGTTTGA CTGCCAGAAAGCCATGCAGGGCCTGACGGGCGCAAGTTTCGCCAACAGAGTGGTTGTCACAAA
ATACTGTGACCCCGACTCTTATCACCGCCGGGACTTCTGGTTAGAGGCGGCTGGGGGAGGGTGGGGGCAGGGCTGG
CTGGGGGCTTCTCCCCACTCCCGCCCCCCCCCTTATCCCCCTCTGAAGACGATGGGCAGAGGAGTGACAGCCGCA
GACACACGACAGCCGGCAGCAACTGGAATGGCAGCAATTAAGGGTGGGGAGCGGGGGTTGGGGGGTTGGGGGGTT
AGGGCAGGGAGGGGACTGGGGAAGTGCGCACACAGCCCCACACAGACAACACGCACG

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FIGURE 5620

MSDFDEFERQLNENKQERDKENRHRKRSHSRSRSRDRKRRSRSRDRNRDQRSASRDRRRRSKPLTRGAKEEHGG
LIRSPRHEKKKKVRKYWDVPPPGFEHITPMQYKAMQAAGQIPATALLPTMTPDGLAVTPTPVVVGVSQMTRQARR
LYVGNIPFGITEAMMDFFNAQMRLGGLTQAPGNPVLAVQINQDKNFAFLEFRSVDETTQAMAFDGIIFQGQSLK
IRRPHDYQPLPGMSENPSVYVPGVVSTVVPDSAHKLFIGGLEPNYLNDDQVKELLTSFGPLKAFNLVKDSATGLSK
GYAFCEYVDINVTDAQIAGLNGMQLGDKLLVQRASVGAKNATLVSPPSTINQTPVTLQVPGLMSSQVQMGGHPT
EVLCLMNMVLPEELLDDDEEYEEIVEDVRDECSKYGLVKSIEIPRPVDGVEVPGCGKIFVEFTSVFDCQKAMQGLT
GRKFANRVVVTKYCDPDSYHRRDFW

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FIGURE 5621

GGGAAGGCATTTGAGCCATTTTGGGGTGTATAGATGTAGTAAGACGATGGGTTCCGTAGTGGGGAGAGGTGACTA
GACTTCGAGGTGCTAAGTGTAGGAACAGGATGGAAAAGCCCTAGTGAAATGTGGGGAATTGGGTTAGTGGGGCTC
TGGGGAGGTACCTAGAGAGGAAGTGAGGGAGGCCACGGAATATGAAGATGGGGAGGCCCTGCGGCATGTAGTGGG
GACGGAGGGCCAGGAGGCCGATACGGGGGCCGGTGGGGGGGTAGGGGGCGGCAAAGGGAGGGGAAGTAAACTGAA
CTGGGGCTGGGCAACAGGAAAAAAGAAGAAACCACAGATTAGAGAAATCTCGGCGGTGAGGAGGCCCGGGGTCTA
AGATGTAAAGAGGTAAACAGATTTAGGGATTGATTGTCTGCTGGGGTGGGTTGAGAGGAGAAAAGGGAAGAAAAG
TCGGGGGACTACGTCTCAGACCTGACCTGAGTGGTGAGAGGTGGACCCAGGAGGAGTGGCAGGTGGTGGCGGGG
TTTTGCAGAGCTCAGTTGGAGGCCCTCTCCGAGGCAGCTTGATGGAACGTGGGAGAGCCGGGCTGGAGTCACAGT
TTTTATTTTGTAGGGAGGTAGTCAGTGGCGCACAAAGGGTAACAAGCAGTGATAGTGGGGATGCTTTCCATTTT
AGGAAACTTTTCTAAAAGGAAGTGGCAATTTTAACTAATCTCCCTCCGCCGTCCCAGCTGCCACTCCAGATG

CTGCTGCTGCCGCCGCGGCCACCCACCCCTCGGTCTCTCTCTCCGGAGGCCATGGACCCACCGCCCCCAAGGCT
CCCCCTTTCCCAAGGCGGAAGGCCCTCCTCCACTCTTCTCGGCGGCGGGGCCCCGACCCCGCGGCTGGGC
CGCCACCTCCTCATCGACGCCAATGGGGTCCCCCTACACATACACGGTGACGTGGAGGAGGAGCCCCGGGGCCCCG
CCCCAGCGCGAGGCGCCCCCAGGAGAGCCCGGCCCTCGCAAGGGCTACAGCTGCCCGGAGTGCGCCCGTGTCTTT
GCCAGCCCTCTGCGGCTGCAGAGCCACCGCGTGTGCGACTCGGACCTCAAGCCCTTCACGTGCGGCGCCTGCGGC
AAGGCCTTCAAGCGCTCCAGCCACCTGTGCGGGCATCGCGCCACGCACCGCGCCCGCGCCGGGCCCGCCGACACC
TGCCCGCTCTGCCCACGCCGCTTCCAGGACGCCGCGGAGCTGGCGCAGCACGTGCGCCTCCACTAAGCTCGAGAC
CCGGCCTGTGCTGCCCTGCCCGTCTCAGGGCCACCAAGTCTGACCCACACAGCGTCACTCACTCCCACACACACC
CCCTGGCTCTGCTGAGGTTACTGCCTTACCCTGGGCCTCAGCCCCACCTTCCAAAGGGAGGAGCATCATTCTTC
CTTACCCCTTTCTAGCTGTGTGATGTAGACCAAAGTCGTTGCCCTCCCTGGGCCTGGGAACCAGTCGGAACGTG
GGTTCCAGTCCAGCTGTGCTGTGTGAGCCTGTGCAAGTGACATGACCTCTCTAAACCTTGGTTTTCTGCTCTCTG
GAGCGGTGAACCGGTGGTTGTCTGCGGGGAAGAGATGATAAAGAGCACGGGCACGGTCTGGTTCATTTCTGTATC
TACCCCTTCCGCCACGCCCGGACCCTTTGCTCAATAAACATTCCGCACTCCAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 5622

MLLLPPRPPHPRSSSPEAMDPPPPKAPFPKAEGPSSTPSSAAGPRPPRLGRHLLIDANGVPYTYTVQLEEEPRG
PPQREAPPGEPPGPRKGYSCPECARVFASPLRLQSHRVSHSDLKPFTCGACGKAFKRSSHLSRHRATHRARAGPPH
TCPLCPRRFQDAAELAQHVRH

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FIGURE 5623

CCTTGTCGAAGGACCAAAGGCGACCGGTGCAGGTGCACGACGCCAGCTCCCTTCTGGGGGGCCGGGGCCTGGGGG
TTGCCATGGCCCCCAGCCACCTGTCAGTGCGGGAGATGAGGGAAGATGAGAAGCCCCCTGGTGCTGGAGATGCTGA
AGGCCGGCGTGAAGGACACGGAAAACCGCGTGGCCCTCCATGCCTTGACACGGCCGCCGGCCCTGCTCCTCCTGG
CGGCGGCCAGCAGCGGCCTGCGCTTTGTCTGGCTTCCTTCGCCCTGGCCCTCCTCCTGCCGGTGTTCTCTGGCTG
TGGCCGCCGTGAAGCTGGGCCTGCGGGCCCGATGGGGCTCGCTGCCTCCGCCGGGTGGCCTGGGGGGCCCCCTGGG
TGGCCGTGCGGGGCTCCGGTGACGTGTGTGGGGTCTCTGGCTCTGGCCCCCTGGCACAAATGCAGGGGACGGGGCCC
GGGTACCCGCCTGTCTGTCTCTCGCTGGCACCGCCGCCGGGGCGTGGGCAGGAGGCTGCTGGCCTTCGCGGAGG
CCCGGGCTCGGGCCTGGGCTGGGGGCAATGGGGGAGCCCCGGGGCCCGGCTCGTGCTCCCCGTGGCTGTGGCCGCCT
GGGGGGTGGGAGGGATGCTGGAGGGCTGTGGCTACCAGGCCGAGGGGGGCTGGGGCTGCCTGGGCTACACGCTGG
TGAGGGAATTCAGCAAAGACCTGTGAAGCTACAGACTGACAGCCAGGGCAGGGGAGGAGGGAGGGGCGCCAGCAC
CTGATGATCGCCTACTGTCTGCGGGTTCTTTTACCTGCTCTCCCTCAGTGAGTCCTCAACCACCCTGGGCCCAGA
AACAGAGGCCTGCCGAGGGGAGGAGCCTGGCCTCTGTCCACCCGTCAGCAGTGTGAAGTCTGTTGTGTTTGTAGCT
TCTCAGAGTGGAAATGACTCCCTTTTCCTTCTGGCCCTCGGGGGCCTCTCGAGGTCAGCCTCTCCAACCCCTACCT
CAGCTCCTGTCTGCACTGAGAAACCTCCCCGGGTGATGTCTGCAAAGTCTGTGCTGTCCGTGCCCCAGGCTGGGA
GAGCTATCTGGGGAGGGGGAGAGGAGGCCGAGCAGAATACACCCAGAGTTAGGGTTTGCCTACTCCGCCTCCCTG
GGACCTGGATTGGGTCAGATGCCTGTCTTGGAGGGGACAAGGTTGACTGCTTAGGAGGCGCGACGCACAGGGCT
GCCAGGCCTGGCCCCCTCTCTGGGAAGGTTGAGAGCTGAGACGGGCAGCCCTGTCCCTTCCTCCAGATCCGTCTGG
TTTTTTACACCGTTTGTTAATAAAGCCTGAAACCGC

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FIGURE 5624

MAPSHLSVREMREDEKPLVLEMLKAGVKDTENRVALHALTRPPALLLLAAASSGLRFVLASFALALLPVFLAVA
AVKLGLRARWGSLPPPGLGGPWVAVRGSGDVCGLALAPGTNAGDGARVTRLVSRWHRRRGVGRLLAFAEAR
ARAWAGGMGEPRARLVVPVAVAAWGVGGMLEGCGYQAEGGWGCLGYTLVREFSKDL

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FIGURE 5625

CGGCGGCGGCGACAGGACCGAGGGGCCTTAGTTGGTGGGCAAGTCGGGGATCCCAGAAAGAGAAGCGTGACCCGG
AAGCGGAAACGGGTGTCCGTCCCAGCTCCGGCCTGCCAGTGAGCTTCTACCATCCATGGACCTATTGTTTCGGGCGC
CGGAAGACGCCAGAGGAGCTACTGCGGCAGAACAGAGGGCCCTGAACCGTGCCATGCGGGAGCTGGACCGCGAG
CGACAGAACTAGAGACCCAGGAGAAGAAAATCATTGCAGACATTAAGAAGATGGCCAAGCAAGGCCAGATGGAT
GCTGTTTCGCATCATGGCAAAGACTTGGTGCGCACCCGGCGTTATGTGCGCAAGTTTGTATTGATGCGGGCCAAC
ATCCAGGCTGTGTCCCTCAAGATCCAGACACTCAAGTCCAACAACCTCGATGGCACAAGCCATGAAGGGTGTCAAC
AAGGCCATGGGCACCATGAACAGACAGCTGAAGTTGCCCCAGATCCAGAAGATCATGATGGAGTTTGAGCGGCAG
GCAGAGATCATGGATATGAAGGAGGAGATGATGAATGATGCCATTGATGATGCCATGGGTGATGAGGAAGATGAA
GAGGAGAGTGATGCTGTGGTGTCCAGGTTCTGGATGAGCTGGGACTTAGCCTAACAGATGAGCTGTGCAACCTC
CCCTCAACTGGGGGCTCGCTTAGTGTGGCTGCTGGTGGGAAAAAAGCAGAGGCCGAGCCTCAGCCCTAGCTGAT
GCTGATGCAGACCTGGAGGAACGGCTTAAGAACCTGCGGAGGGACTGAGTGCCCTGCCACTCCGAGATAACCAG
TGGATGCCCAGGATCTTTTACCACAACCCCTCTGTAATAAAAGAGATTTGACACTAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 5626

MDLLFGRRKTPEELLRQNQRALNRRAMRELDREERQKLETQEKKIADIKKMAKQGQMDAVRIMAKDLVRTRRYVRK
FVLMRANIQAVSLKIQTLKSNNNSMAQAMKGVTKAMGTMNRQLKLPQIQKIMMEFERQAEIMDMKEEMMNDAIDDA
MGDEEDEEESDAVVSQVLDELGLSLTDELSNLPSTGGSLSVAAGGKKAEEAASALADADADLEERLKNLRRD

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FIGURE 5627

GGCGCGCGGGCGAGCGGTTGTGCTTGTGCTTGTGGCGCGTGGTGCGGGTTTCGGCGGCGGGCTGAGGAAGAAGCGC
GGGCGGCGCCTTCGGGAGGCGAGCAGGCAGCAGTTGGCCGTGCCGTAGCAGCGTCCCGCGCGCGGGCGGGCAGCGG
CCCAGGAGGCGCGTGGCGGCGCTCGGCCTCGCGGCGGGCGGGCGGGCAGCGGCCCAGCAGTTGGCGGCGAGCGCG
TCTGCGCCTGCGCGGCGGGCCCCGCGCCCTCCTCCCCCCTGGGCGCCCCCGGGCGGCGTGTGAATGGCGGCGCTC
CGCGGCGGCAGCCTCGGCAGCAGCGGCCTCGGCCGCCTCTGGCAGCCCCGGGCCCCGGGCGAGGGCTCCGCTGGCGG
CGAAAAGCGCTCCACCGCCCCCTCGGCCGAGCCTCGGCCTCTGCCTCAGCCGCGGCGTCTGTCGCCCCGCGGGGG
CGGCGCCGAGGCGCTGGAGCTGCTGGAGCACTGCGGCGTGTGCAGAGAGCGCCTGCGACCCGAGAGGGAGCCCCG
CCTGCTGCCCTGTTTTGCACTCGGCCTGTAGTGCCTGCTTAGGGCCCCGCGGCCCCCGCGCCGCCAACAGCTCGGG
GGACGGCGGGGGCGGCGGGCGACGGCACCGTGGTGGACTGTCCCGTGTGCAAGCAACAGTGCTTCTCCAAAGACAT
CGTGGAGAATTATTTCAATGCGTGATAGTGGCAGCAAGGCTGCCACCGACGCCCAGGATGCGAACCAAGTGCTGCAC
TAGCTGTGAGGATAATGCCCCAGCCACCAGCTACTGTGTGGAGTGCTCGGAGCCTCTGTGTGAGACCTGTGTAGA
GGCGCACCCAGCGGGTGAAGTACACCAAGGACCATACTGTGCGCTCTACTGGGCCAGCCAAGTCTCGGGATGGTGA
ACGTACTGTCTATTGCAACGTACACAAGCATGAACCCCTTGTGCTGTTTTGTGAGAGCTGTGATACTCTCACCTG
CCGAGACTGCCAGCTCAATGCCACAAGGACCACCAGTACCAGTTCTTAGAGGATGCAGTGAGGAACCAGCGCAA
GCTCCTGGCCTCACTGGTGAAGCGCCTTGGGGACAAACATGCAACATTGCAGAAGAGCACCAAGGAGGTTTCGAG
CTCAATCCGCCAGGTGTCTGACGTACAGAAGCGTGTGCAAGTGGATGTCAAGATGGCCATCTGCAGATCATGAA
GGAGCTGAATAAGCGGGGCCGTGTGCTGGTCAATGATGCCAGAAGGTGACTGAGGGGCGAGCAGGAGCGCCTGGA
GCGGCAGCACTGGACCATGACCAAGATCCAGAAGCACCAGGAGCACATTCTGCGCTTTGCCTCTTGGGCTCTGGA
GAGTGACAACAACACAGCCCTTTTGCTTTCTAAGAAGTTGATCTACTTCCAGCTGCACCGGGCCCTCAAGATGAT
TGTGGATCCCGTGGAGCCACATGGCGAGATGAAGTTTCACTGGGACCTCAATGCCTGGACCAAGAGTGCCGAGGC
CTTTGGCAAGATTGTGGCAGAGCGTCTGGCACTAACTCAACAGGCCCTGCACCCATGGCCCCCTCCAAGAGCCCC
AGGGCCCCCTGAGCAAGCAGGGCTCTGGCAGCAGCCAGCCCATGGAGGTGCAGGAAGGCTATGGCTTTGGGTCAGG
AGATGATCCCTACTCAAGTGCAGAGCCCCATGTGTGAGGTGTGAAACGGTCCCGCTCAGGTGAGGGCGAGGTGAG
CGGCCTTATGCGCAAGGTGCCACGAGTGAGCCTTGAACGCCTGGACCTGGACCTCAGAGCTGACAGCCAGCCACC
CGTCTTCAAGGTCTTCCCAGGCACTACCACTGAGGACTACAACCTTATTGTTATTGAACGTGGCGCTGCCGCTGC
AGCTACCGGCCAGCCAGGGACTGCGCCTGCAGGAACCCCTGGTGCCCCACCCCTGGCTGGCATGGCCATTGTCAA
GGAGGAGGAGACGGAGGCTGCCATTGGAGCCCCCTCTACTGCCACTGAGGGCCCTGAGACCAAACCTGTGCTTAT
GGCTCTTGCGGAGGGTCTGGTGCTGAGGGTCCCCGCTGGCCTCACCTAGTGGCAGCACCAGCTCAGGGCTGGA
GGTGGTGGCTCCTGAGGGTACCTCAGCCCCAGGTGGTGGCCCCGGAACCCCTGGATGACAGTGCCACCATTTGCCG
TGTCTGCCAGAAGCCAGGCGATCTGGTTATGTGCAACCAAGTGTGAGTTTTGTTTCCACCTGGACTGTCACCTGCC
GGCCCTGCAGGATGTACCAGGGGAGGAGTGGAGCTGCTCACTCTGCCATGTGCTCCCTGACCTGAAGGAGGAGGA
TGGCAGCCTCAGCCTGGATGGTGCAGACAGCACTGGCGTGGTGGCCAAGCTCTCACCAGCCAACCAGCGGAAATG
TGAGCGTGTACTGCTGGCCCTATTCTGTACGAACCCCTGCCGCCCCCTGCATCAGCTGGCTACCGACTCCACCTT
CTCCCTGGACAGCCCCGGTGGCACCCCTGGATCTGACCCTGATCCGTGCCCGCCTCCAGGAGAAGTTGTCACCTCC
CTACAGCTCCCCACAGGAGTTTGCCAGGATGTGGGCGCATGTTCAAGCAATTCAACAAGTTAACTGAGGACAA
GGCAGACGTGCAGTCCATCATCGGCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAA
GTTCTCTGCTGTGCTGGTGGAGCCCCCGCGATGAGCCTGCCTGGTGTGGCCTGAGTTCCCAGGAGCTGTCTGG
TGGCCCTGGTGATGGCCCCTGAGGCTGGAGCCCCCATGGCCAGCCCAGCCTGGCTCTGTTCTCTGTCTCTGTCC
CCATCCCCACTCCCCCTGGTGGCCTGACTCCCACTCCCTGGTGGCCCCATCCCCCAGTTCTCAGGATATGGTTTT
TACTTCTGTGGATTTAATAAAAACTTCACCAGTTAAAAA

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FIGURE 5628

MAASAAAASAAAASAGSPGPGEGSAGGEKRSTAPSAAASASASAAAASSPAGGGAEALELLEHCGVCRERLRPE
REPRLLPCLHSACSACLGPAPAAANSSGDGGAAGDGTVVDCPVCKQQCFSKDIVENYFMRDSGSKAATDAQDAN
QCCTSCEDNAPATSVCVECSEPLCETCVEAHQVRKYTKDHTVRSTGPAKSRDGERTVYCNVHKHEPLVLFCESCD
TLTCRDCQLNAHKDHQYQFLEDAVRNQKLLASLVKRLGDKHATLQKSTKEVRSSIRQVSDVQKRVQVDVKMAIL
QIMKELNKRGRVLVNDQAQKVTEGQQRERLERQHWTMTKIQKHQEHILRFASWALESDNNTALLLSKKLIYFQLHRA
LKMIIVDPVEPHGEMKFQWDLNAWTKSAEAFGKIVAERPGTNSTGPAPMAPPRAPGPLSKQSGSGSSQPMEVQEGYG
FGSGDDPYSSAEPHVSGVKRSRSGEGEVSGLMRKVPRVSLERLDLDTADSQPPVFKVFPGSTTEDYNLIVIERG
AAAAATGQPGTAPAGTPGAPPLAGMAIVKEEETEAAIGAPPTATEGPETKPVLMAAEGPGAEGPRLASPSGSTS
SGLEVVAPEGTSAPGGGPGTLDDSATICRVCQKPGDLVMCNQCEFCFHLDCPLALQDVPGEWSSCSLCHVLPDL
KEEDGSLSLDGADSTGVVAKLSPANQRKCERVLLALFCHEPCRPLHQLATDSTFSLDQPGGTLDLTLIRARLQEK
LSPPYSSPQEFAQDVGRMFKQFNKLTEDKADVQSIIGLQRFETRMNEAFGDTKFSAVLVEPPPMSLPGAGLSSQ
ELSGGPGDGP

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FIGURE 5629

ATTTATTTATTGTTCTGCTACTGCTCTTTGAGGATTGGTATCTCTGCTCCAGAAAAGATGGCAGCCTCTTTC
TTCTCTGATTTTGGTCTTATGTGGTATCTGGAGGAGCTCAAAAAGGAGGAGTTCAGGAAATTTAAAGAACATCTC
AAGCAAATGACTTTGCAGCTTGAAGTCAAGCAGATTCCCTGGACTGAGGTCAAAAAGCATCCCGGAAGAACTT
GCAAACCTCTTGATCAAGCACTATGAAGAACAACAAGCTTGGAAACATAACCTTAAGAATCTTTCAAAGATGGAT
AGAAAGGATCTCTGCATGAAGGTCATGAGGGAGAGAACAGGATACACAAAGACCTATCAAGCTCAGCAAAGCAG
AAATTCAGCCGCTTATGGTCCAGCAAGTCTGTCACTGAGATTACCTATACTTTGAGGAGGAAGTCAAGCAAGAA
GAATGTGACCATTTGGACCGCCTTTTGTCTCCCAAGGAAGCTGGGAAACAGCCACGTACAGTGATCATTCAAGGA
CCACAAGGAATTGGAAAAACGACACTCCTGATGAAGCTGATGATGGCCTGGTCCGACAACAAGATCTTTCGGGAT
AGGTTCTGTACACGTTCTATTTCTGCTGCAGAGAAGTCTGAGGGAGTTGCCGCCAACGAGTTTGGCTGACTTGATT
TCCAGAGAGTGGCCTGACCCCGCTGCTCCTATAACAGAGATCGTGTCTCAACCGGAGAGACTCTTGTTCGTCATC
GACAGCTTCCAAGAGCTGCAGGGCGGCTTGAACGAACCCGATTCCGATCTGTGTGGTGAAGTGGAGAAAACGG
CCGGTGCAGGTGCTTCTGAGCAGTTTGTCTGAGGAAGAAGATGCTCCCGGAGGCCTCCCTGCTCATCGCTATCAAA
CCCGTGTGCCCCGAAGGAGCTCCGGGATCAGGTGACGATCTCAGAAATCTACCAGCCCCGGGGATTCAACGAGAGT
GATAGGTTAGTGATTTCTGTGTTTCTTCAAAGACCCGAAAAGAGCCATGGAAGCCTTCAATCTTGTAAGAGAA
AGTGAACAGCTGTTTTCCATATGCCAAATCCCGCTCCTCTGCTGGATCCTGTGTACCAGTCTGAAGCAAGAGATG
CAGAAAGGAAAAGACCTGGCCCTGACCTGCCAGAGCACTACCTCTGTGTACTCCTCTTTTCGTTCTTAACCTGTTT
ACACCTGAGGGTGCCGAGGGCCCGACTCCGCAAACCCAGCACCAGCTGAAGGCCCTGTGCTCCCTGGCTGCAGAG
GGTATGTGGACAGACACATTTGAGTTTGTGAAGACGACCTCCGGAGAAATGGGGTTGTTGACGCTGACATCCCT
GCGCTGCTGGGCACCAAGATACTTCTGAAGTACGGGGAGCGTGAGAGCTCCTACGTGTTTCTCCACGTGTGTATC
CAGGAGTTCTGTGCCGCTTGTCTATTTGCTCAAGAGCCACCTTGATCATCCTCACCAGCTGTGAGATGTGTA
CAGGAATTGCTAGTTGCCAATTTGAAAAAGCAAGGAGAGCACATTGGATTTTTTTTGGGGTGTCTTCTAACTGGC
CTTTTAAATAAAAAAGGAACAAGAAAACTGGATGCGTTTTTTTGGCTTCCAAGTGTCCCAAGAGATAAAGCAGCAA
ATTACCAGTGCTGAAGAGCTTAGGGGAGCGTGGCAATCCTCAGGGACAGGTGGATTCCCTGGCGATATTTTAC
TGTCTCTTTGAAATGCAGGATCCTGCCCTTTGTGAAGCAGGCAGTGAACCTCCTCCAAGAAGCTAACTTTTCATATT
ATTGACAACGTGGACTTGGTGGTTTCTGCCTACTGCTTAAATACTGCTCCAGCTTGAGGAACTCTGTTTTTCC
GTTCAAATGTCTTTAAGAAAAGAGGATGAACACAGCTCTACGTCGGATTACAGCCTCATCTGTTGGCATCACATC
TGCTCTGTGCTCACCACCAGCGGGCACCTCAGAGAGCTCCAGGTGCAGGACAGCACCCTCAGCGAGTCGACCTTT
GTGACCTGGTGTAACCAGCTGAGGCATCCAGCTGTCGCTTCAAGAGCTTGAATAAATAACGTTTTCTTTCT
GGCCAGAGTGTTCTGCTCTTTGAGGTGCTCTTTTATCAGCCAGACTTGAAATACCTGAGCTTCACCCTCAGAAA
CTCTCTCGTGATGACATCAGGTCCCTCTGTGATGCCTTGAAGTACCCAGCAGGCAACGTCAAAGAGCTAGCGCTG
GTAAATTGTACCTCTCACCATTGATTGTGAAGTCTTGTGCTGGCCTTCTAACCACAACAAGAAGCTGACGTAT
CTGAATGTATCCTGCAACCAGTTAGACACAGGCGTGCCCTTTTGTGTGAAGCCCTGTGCAGCCAGACACGGTC
CTGGTATACCTGATGTTGGCTTTCTGCCACCTCAGCGAGCAGTGCTGCGAATACATCTCTGAAATGCTTCTGCGT
AACAAGAGCGTGCGCTATCTAGACCTCAGTGCCAATGTCTGAAGGACGAAGGACTGAAAACCTCTCTGCGAGGCC
TTGAAACATCCGGACTGCTGCCTGGATTCACTGTGTTTGGTAAAATGTTTTATCACTGCTGCTGGCTGTGAAGAC
CTCGCCTCTGCTCTCATCAGCAATCAAAAACCTGAAGATTCTGCAAATTGGGTGCAATGAAATCGGAGATGTGGGT
GTGACGCTGTTGTGTCGGGCTCTGACGCATACGGATTGCCGCTTAGAGATTCTTGGGTTGGAAGAATGTGGGT
ACGAGCACCTGCTGTAAGGATCTCGCGTCTGTTCTCACCTGCAGTAAGACCCTGCAGCAGCTCAACCTGACCTTG
AACACCTTGAACACACAGGGGTGGTTGTACTCTGTGAGGCCCTGAGACACCCAGAGTGTGCCCTGCAGGTGCTC
GGGCTGAGAAAACTGATTTTGATGAGGAAACCCAGGCACTTCTGACGGCTGAGGAAGAGAGAAATCCTAACCTG
ACCATCACAGACGACTGTGACACAATCACAAGGGTAGAGATCTGATTGCGAGGAACCTGGGCTCTGACTCGAACA
CCTGCAAAGGACAGGGACTGGGACCGTTACTTACATGACACTGCACCCAGGAGATACAAATCATTGATACTCTGA
GTTGTGAGATTTCTGGCACCCATTATAGATTTGATATGATACACGTGGTTTTTATGTGCTCTGTGGCCTTGG
TGAGTCACTGAAAGGCCTTCATGGTCTCTCGGTCTCACAAGGACCTCTTAACCCCTCAATAAAGTGTTACATTT
TAAACATTGG

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FIGURE 5630

MAASFFSDFGLMWYLEELKKEEFRKFKEHLKQMTLQLELKQIPWTEVKKASREELANLLIKHYEEQQAWNITLRI
FQKMDRKDLCKMKVMRERTGYTKTYQAHAKQKFSRLWSSKSVTEIHLYFEEEVKQEECDHLDRLEFAPKEAGKQPRT
VIIQGPQGIGKTTLLMKLMMAWSDNKIFRDRFLYTFYFCCRELRELPTSLADLISREWPDPAAPITEIVSQPER
LLFVIDSFEELQGGLENEPDSDLCDLMEKRPVQVLLSSLLRKKMLPEASLLIAIKPVCPKELRDQVTISEIYQPR
GFNESDRLVYFCCFFKDPKRAMEAFNLVRESEQLFSICQIPLLCWILCTSLKQEMQKGKDLALTCQSTTSVYSSF
VFNLFTPEGAEGPTPQTQHQLKALCSLAAEGMWTDTFEFCEDDLRRNGVVDADIPALLGTKILLKYGERESSYVF
LHVCIQEFCAALFYLLKSHLDHHPHAVRCVQELLVANFEKARRAHWIFLGCFITGLLNKKEQEKLDAFFGFQLSQ
EIKQQIHQCLKSLGERGNPQGQVDSLAIIFYCLFEMQDPAFVKQAVNLLQEANFHIIDNVDLVVSAYCLKYCSSLR
KLCFSVQNVFKKEDEHSSTSDYSLICWHHICSVLTTSGLHRELQVQDSTLSESTFVTWCNQLRHPSCRLQKLGIN
NVSFSGQSVLLFEVLFYQPDLYLSFTLTKLSRDDIRSLCDALNYPAGNVKELALVNCHLSPIDCEVLGGLTNN
KKLTLYLNVSCNQLDTGVPLLCEALCSPDTVLVYLMLAFCHLSEQCEYI SEMLLRNKSVRYLDLSANVLKDEGLK
TLCEALKHPDCCLDSLCLVKCFITAAGCEDLASALISNQNLIKILQIGCNEIGDVGVLQALCRALHTDCRLEILGL
EECGLTSTCKDLASVLTCSKTLQQLNLTNTLDHTGVVVLCEALRHPECALQVLGLRKTD FDEETQALLTAE
RNPNLITITDDCDTITRVEI

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FIGURE 5631

GTGGGGCGCGGGCAATGGAGCAGAGTATGGGAGAACGCGCTCGGAGTAAAGCACACGGCGCGGGCGAAGGCGTGGC
GGGAGTGTGCGGCGCCGGACCCGGGAAGCTGGCCTGGGCGCCGGGTCTCGAGTGCAGGCCTTTGTTCTGAAGTGT
CCAGGCCGGCCTTGCGGCGTCGGGACTGAGGAATGGAGCCCGTCGCGGGGCGGGGCGGGAAAGGAAGGTTCAAGT
CTCTCGGGTTGATGCGCAAGTTTCCGTCCCCATCGGCCGGACAGATTAGAATCCTTTCAGGTGCTAGATGGCGGC
TGCAGAGGCTGTGCATCACATACACCTGCAGAACTTCTCACGCTCTCTGCTTGAGACCCTCAATGGGCAGAGGCT
TGGGGGACACTTCTGTGACGTGACTGTGCGCATTCGTGAAGCTTCGCTGCGTGCCCCACCGCTGCGTGCTGGCGGC
CGGCTCACCTTCTTCCAAGACAAGCTGCTGCTCGGCCACTCTGAGATCCGTGTGCCTCCGGTGGTGCCCGCGCA
GACAGTGCAGACAGCTGGTAGAGTTCCGTGTACAGCGGTTTCGCTCGTTGTGGCGCAGGGTGAAGCCCTGCAGGTGCT
CACGGCCGCGTCAGTGCTTCGCATACAGACAGTTATCGACGAATGCACGCAGATTATCGCCCGCGCTCGAGCCCC
GGGCACCTCTGCGCCACGCCCCCTGCCACCCCTGTGCCCCCGCCACTCGCACCTGCGCAGCTGCGTCACCGCCT
GCGCCACCTGCTGGCTGCACGTCCCCCGGGGACCCCGGTGCTGCACACAGCCGTAAGCAGCGCCAGCCCGCGCG
TTTGACAGCTGCCAGCGCCCCAACACCTGCCAAGGCTGAGGGGCTGATGCTGACCCCTCACTGTCCGCGGCCCC
TGATGACCGAGGTGACGAGGATGACGAGGAAAGTGACGATGAGACCGATGGCGAGGATGGCGAAGGTGGCGGCCC
AGGCGAGGGCCAGGCACCTCCTTCCCTTCCCAGACTGTGCTGCTGGCTTCTCACTGCTGCTGCTGACAGCGCTG
CGAGGAGCCCCCTGCACCCACTGGCCTCGCTGACTACAGTGGTGCCGGGAGAGATTTTCTTCGGGGAGCTGGGTC
AGCTGAGGACGTATTTCCAGACAGCTATGTATCCACTTGGCACGACGAGGATGGCGCTGTCCCCGAAGGCTGTCC
CACTGAGACCCCTGTCCAGCCGACTGCATACTGTCTGGATCCCGCCCGCCTGGTGTGAAGACCCAGGGCCGCC
CGTTGCACTCTTCCCCTTTCACTTGGGTGCCCCCTGGGCCACCCGCAACCACCCCTTCAGCACCATCGGGGCCAGC
CCCTGCGCCCCCACCAGCCTTCTACCCACACTCCAGCCCGAGGCAGCCCCCAGTACTCAGCTGGGGGAGGTCCC
GGCTCCCTCTGCTGCTCCACACGCCCCCTCAGGCACCCCTGCTCGCACCCACGGTGCTGAGCCACCTACGTA
TGAGTGCAGCCACTGTGCAAGACGTTTCACTCCCGGAAAACTACACCAAGCACATGTTTATCCACTCGGGGGA
GAAGCCGCACCAGTGCGCCGTGTGCTGGCGATCCTTCTCTCTACGCGACTACCTGCTCAAACACATGGTACGCA
CACCGGCGTGCGCGCCTTCCAGTGCGCCGTCTGCGCCAAGCGCTTACGCAGAAGAGCTCGCTCAACGTGCACAT
GCGCACTCACCGGCCCGAGCGCGCGCCCTGCCCGCCTGCGGCAAGGTCTTCTCGCACCGCGCGCTGCTGGAGCG
CCACCTGGCGGCGCACCTGCGCCCTGATGGCGCTGGGGCCTGGCCTCGCCACGGTGGATCCGGGGCCTCCCGC
ACAGTCGGCCACGCCCCGTGCGGGACCCGTGGTTCCCGCCACTAGACCACGCTCCCTCCTGAGCGCAGGTCTCT
CTCTCCCTTACCCCTTTCTCCATACCAGGGCCTAAGTCCGCCTTACTCCTCTCCTCCATGTACTTGAACCCCTCA
GGTGGTGCCGGGCTGGGGCTGGGGCTGGTTAGACCACTTCTGAGAACTGGACTATTTCTGCGTAAACCGGGCGC
TCAGGCGCTTGGACCCGGCCCCAAGATTTGACTCCGGTTCTACCCCCCCTCTCCTGGGGTGGTGGTGGGGGCTG
GGGGGCCGCTTGCTGCCCCAGGGTCAGGCTGGGCAAGGTCCCTAGCTCTCTACCCAAGCTGTTACTCCCTCATG
GGGCGCCTAAGGAGACTCAAGTGGACCCATCATATATGGGGGCTGGGCCTCGGGACTCTCGCTCTAATAAAGGAC
TGTAGGCCATGGGGCCTAAACCACGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5632

MAAAEAVHHIHLQNFSRSLLETNLNGQRLGGHFCDTVRIREASLRAHRCVLAAGSPFFQDKLLLGHSEIRVPPVV
PAQTVRQLVEFLYSGSLVVAQGEALQVLTAASVLRIQTVIDECTQIIARARAPGTSAPTPLPTPVPPPLAPAQLR
HRLRHLLAARPPGHPGAHSRKQRQPARLQLPAPPTPAKAEGPDADPSLSAAPDDRGDEDEESDDETDGEDGEG
GGPGEGQAPPSFPDCAAGFLTAAADSACEEPPAPTGLADYSGAGRDFLRGAGSAEDVFPDSYVSTWHDGAVPE
GCPTEPVPQDCILSGSRPPGVKTPGPPVALFFHFLGAPGPPAPPPSAPSGPAPAPPPAFYPTLQPEAAPSTQLG
EVPAPSAAPTTPASGTPARTPGAEPPTYECSHCRKTFSSRKNYTKHMFHSGEKPHQCAVCWRSFSLRDYLLKHM
VHTGVRAFAQCAVCAKRFTQKSSLNVHMRTHRPERAPCPACGKVFSHRALLERHLAAHPAP

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FIGURE 5633

GGCGGCGCGTGGTCTACGCCGAGTGACAGAGACGCTCAGGCTGTGTTCTCAGGATGACCGAGTGGGAGACAGCAG
CACCAGCGGTGGCAGAGACCCAGACATCAAGCTCTTTGGGAAGTGGAGCACCGATGATGTGCAGATCAATGACA
TTTCCTGCAGGATTACATTGCAGTGAAGGAGAAGTATGCCAAGTACCTGCCTCACAGTGCAGGGCGGTATGCCG
CCAAACGCTTCCGCAAAGCTCAGTGTCCATTGTGGAGCGCCTCACTAACTCCATGATGATGCACGGCCGCAACA
ACGGCAAGAAGCTCATGACTGTGCGCATCGTCAAGCATGCCTTCGAGATCATAACCTGCTCACAGGCGAGAACC
CTCTGCAGGTCTGGTGAACGCCATCATCAACAGTGGTCCCCGGGAGGACTCCACACGCATTGGGCGCGCCGGGA
CTGTGAGACGACAGGCTGTGGATGTGTCCCCCTGCGCCGTGTGAACCAGGCCATCTGGCTGCTGTGCACAGGCG
CTCGTGAGGCTGCCTTCCGGAACATTAAGACCATTGCTGAGTGCCTGGCAGATGAGCTCATCAATGCTGCCAAGG
GCTCCTCGAACTCCTATGCCATTAAGAAGAAGGACGAGCTGGAGCGTGTGGCCAAGTCCAACCGCTGATTTTCCC
AGCTGCTGCCCAATAAACCTGTCTGCCCTTTGGGGCAGTCCCAGCCAAAA

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FIGURE 5634

MTEWETAAPAVAETPDIKLFGKWSTDDVQINDISLQDYIAVKEKYAKYLPHSAGRYAAKRFRKAQCPIVERLTNS
MMMHGRNNGKKLMTVRIVKHAFEIIHLLTGENPLQVLVNAIINSGPREDSTRIGRAGTVRRQAVDVSPLRRVNQA
IWLLCTGAREAAFRNIKTIAECLADELINAAGSSNSYAIKKKDELERVAKSNR

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FIGURE 5635

CAGAGGTTGTGGTGAGCCGAGATCACAGCACTGCACTCCAGCCTGGGTGACAAGAGCAAGACTCCGTCTCAAAAT
AAATAAATAAAAAATAAAAAATAAACATGATGATCACAGATGCAGTCACATTTTCTGAGTTCTTGTCTCTCTGCCA
GTGCCACCCAGATAGCCTCACAAAACTTTGACCCAGCCACTGTTAGTGTCGCCACCGCCCATAAAGGAGCTGAGC
CCAGCAGGGGCACTGCCTGGGGCCCTGTAGCCAAAAGGCTACAGCAGGAGCTGATGACCCTCATGATGCCTGGTG
ACAAAAGAATTTCTGCCTACCCTGAAAGCCTTATCAAATGGACACCATCCATGAAGCAGCTGGCACAGTGTATGA
AGATCTGAGGTATAAGCTCTTGCTGGAGTTCCTCAATGACTACCCACCTTTACGATGCACCCACAGTGAAGTTCC
TCACACCCTGCTACCACCCTAACGTGGACACCCAGGGTAACATATGCCTGGACATCCTGAAGGAGAAGTGGTCTG
CCCCGTATGATATCAGGACCATCCTGCTCTCTATCCAGTGCCCTGCTAGGACAACCTCAACATTGATAGCCCTTTGA
ACACACATGCTACCAAGCTCTGGGAAAACCCCATAGCTTTAAGAAGTACCTGCAAGGGTCAGGCGCAGTGGCTCA
CACCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATGGATCACCTGACGTAGAGAGTCCAAGGCCTGAC
AAACATGGAGAAAATGTCATCCCTATTTAAAAAATAAAAAAATTAGCCAAG

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FIGURE 5636

GACTCAGGTGAACTAACCTGCGAGAAGCTGGTTGTGCGCTGAGGCGACCAGCGCCGGAAGGCACGGTGGCGACTC
ACGCTGTTCTCGCCGCTCAGAGGCGGGTCTGAGGCTCGGTGGCGGCGCCAGGGTGGCCCCGGGCCCTTTCCTCGG
TCATTGTCTCCCTCCAGCTCTACTCACAGGCTCCGATGGCGGCGGCCCTGAGGGACCCCGCTCAGGTTCTCT
GTGGCTGCAGACTTGCTTACAGACCATGAGGAGGGCTATGTGACCTTTGAGGATGTGGCTGTCTACTTCTCCCAG
GAGGAATGGAGATTGCTTGATGACGCTCAGAGGCTCCTCTACCGCAATGTGATGCTGGAGAACTTTACACTTCTG
GCCTCTCTCGGACTTGTCATCTTCCAAGACCCATGAAATAACCCAGCTGGAGTCATGGGAGGAGCCCTTCATGCCT
GCTTGGGAAGTTGTGACTTCAGCCATACCGAGAGGTTGTTGGCATGGAGCCGAGGCTGAGGAGGCTCCTGAGCAG
ATTGCTTCTGTAGGACTGCTCAGTTCAAACATTACAGCAACACCAGAAGCAGCACTGTGGAGAGAAACCCTTAAAA
AGACAACAGGGCAGGGTCCCAAGTTTTGAGGAGTTGCAAAGTTACCTATCAGAGAAGTCCTTGCAAAGCAGGGAG
GTTGGGAAGGCCCTCCTGATCAGCTCAGGTGTTCTCAAGCACCAGGTGACTCACACAGGAGAGAAGTCACATAGG
AGCTCCAAAAGTAGGGAGGCCCTTTCATGCTGGAAAAAGGCATTACAAATGCAGTGAATGTGGGAAAAGCCTTTGGT
CAGAAAATATTTACTTGTTCAGCACCAGAGACTACATGCTGGGAAAAAGACGTATGAATGCAGTGAATGTGGGAAG
TTATTTAGAGATATGTCCAACCTTTTTATACCAAATAGTTACACTGGAGAAAAGCCTTACGGGTGTAGTAAC
TGTGGAAAATCCTTTAGCCGTAATGCTCACCTCATTGAACACCAGAGAGTTACACTGGAGAAAAGCCTTTTACA
TGCAGTGAATGTGGAAAAGCCTTTCAGGCATAATTCCACACTTGTTCAGCATCACAAAATCCACACTGGAGTAAGG
CCTTATGAGTGCAGTGAATGTGGAAAATTGTTTAGTTTTCAACTCCAGCCTCATGAAACATCAGAGAGTTACACT
GGAGAAAGACCTTATAAGTGCAGTGAATGTGGAAAATTCTATAGCCACAAGTCCAACCTTATCAAACATTGGCGT
GTTCACTACTGGAGAAAAGCCTTACAAGTGCAGCGACTGTGGGAAATTTTTTACCCAATGCTCAAGCCTCATGCAA
CATCAAAAAGTTACACTGGAGAAAAGCCTTTTAAGTGCAATGAATGTGGGAGATTCTTTAGAGAGAATTCCACC
CTAGTTAGACATCAGAGGGTTACACTGGAGCAAAGCCTTATGAGTGCAGGGAATGTGGGAAATTTTTTAGCCAA
AGCTCAACCCTCATGCAACATCGAAAAGTTACATTGGAGAAAAGCCTTTTAAGTGCAATGAATGTGGGAGATTG
TTTAGAGAGAATTCCAGCCTTGTTAAACATCAGAGGGTTACACTGGAGCAAAGCCTTATGAGTGCAGGGAATGT
GGGAAGTTTTTTCGCCACAACCTCCAGTCTTTTTAAACATCGAAGGATTACACTGGAGAAAATGCAGTGATTGTGT
GAAATCCTTTAGCCAGCGTTTCAACCTCATTCAACACCAGAAAGTTACAGTGGAAAAAATCTTGAAGGTAACAG
ATGGAAATCCGTTAGCCACACCTCCAGTCTCATTCAACACTGGACAGTTTACAATGTGGACAATGTAGTGAATAT
GGAAAAAGGTTTCAGCCAAAGGCCTAACCCTATTCAACACCAGAAAGTTTAGAATGGAGAAAAGCCTTAGGGTGA
CAGGTTATGTACTGTCTCTGAATCAATATGACCTCACTTAAAACAGAACTCTGAGGATGGCCTTTATGAGGGAG
CTGGCAATTGAACATCATTCATCTAAATATGCACACTGGAGGCAAGATGAGAATTCCTGACAGATTGTCCTTCCT
GAGAAGACAGCCCTCTGCCTTGGAGCTCCAGAGAGAGGGAGCCCTGTATTCTTGGCTGTACCCGTCGAATGGAGT
TTTGATCTCGCTGAGTTTGGAGTTGGGGAGGAAAGGAGTGGTCTTGGTTCAAATGTGACTCACTTTTGTCTGTTT
TTGTGAATGTAGATCTTCTTTAATAAATATTTATTTCCCATACACCCTTATGACCATTAAAAAAAAAAAAAAAA
AA

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FIGURE 5637

MAAAALRDPAQVPVAADLLTDHEEGYVTFEDVAVYFSQEEWRLDDAQRLLYRNVMLENFTLLASLGLASSKTHE
ITQLESWEPPFMPAWEVVTSaiprgcwhgAEAEAEPEQIASVGLSSNIQQHQKQHCGEKPLKRQQGRVPVLRSC
KVHLSEKSLQSREVGKALLISSGVLKHQVTHTGEKSHRSSKSREAFHAGKRHYKCSECGKAFGQKYLLVQHQR LH
AGKKTIECSECGKLFRDMSNLFihQIVHTGERPYGCSNCGKSFSRNAHLIEHQRVHTGEKPFTCSECGKA FRHNS
TLVQHHKIHTGVRPYECSECGKLFSFNSSLMKHQRVHTGERPYKCSECGKFYSHKSNLIKHW RVHTGERPYKSD
CGKFFTQCSSLMQHQKVHTGEKPFKCNECGRFFRENSTLVRHQRVHTGAKPYECRECGKFFSQSSTLMQHRKVHI
GEKPFKCNECGRLFRENSSLVKHQRVHTGAKPYECRECGKFFRHNSSLFKHRR IHTGEMQ

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FIGURE 5638

GTGCGATCCCGGGCCCGAGGGCATCAGACGGCGGCTGATTAGCTCCGGTTTGCATCACCCGGACCGGGGGATTAG
CTCCGGTTTGCATCACCCGGACCGGGGGCCGGGCGCGCACGAGACTCGCAGCGGAAGTGGAGGCGGCTCCGCGCG
CGTCCGCTGCTAGGACCCGGGCAGGGCTGGAGCTGGGCTGGGATCCCGAGCTCGGCAGCAGCGCAGCGGGCCGGC
CCACCTGCTGGTGCCCTGGAGGCTCTGAGCCCCGGCGGGCGCCCGGGCCACGCGGAACGACGGGGCGAGATGCGA
GCCACCCCTCTAGCTGCTCCTGCGGGTTCCTGTCCAGGAAGAAGCGGTTGGAGTTGGATGACAACTTAGATACC
GAGCGTCCCGTCCAGAAACGAGCTCGAAGTGGGCCCCAGCCCAGACTGCCCCCTGCCTGTTGCCCTGAGCCCA
CCTACTGCTCCAGATCGTGCAACTGCTGTGGCCACTGCCTCCCGTCTTGGGCCCTATGTCCTCCTGGAGCCCGAG
GAGGGCGGGCGGGCCTACCAGGCCCTGCACTGCCCTACAGGCACTGAGTATACCTGCAAGGTGTACCCCGTCCAG
GAAGCCCCGGCCGTGCTGGAGCCCTATGCGCGGCTGCCCCCGCACAAGCATGTGGCTCGGCCCACTGAGGTCCTG
GCTGGTACCCAGCTCCTCTACGCCCTTTTCACTCGGACCCATGGGGACATGCACAGCCTGGTGCAGAGCCGCCAC
CGTATCCCTGAGCCTGAGGCTGCCGTGCTCTTCCGCCAGATGGCCACCGCCCTGGCGCACTGTACCAGCACGGT
CTGGTCTGCGTGATCTCAAGCTGTGTGCTTTGTCTTCGCTGACCGTGAGAGGAAGAAGCTGGTGTGAGAAC
CTGGAGGACTCCTGCGTGCTGACTGGGCCAGATGATTCCCTGTGGGACAAGCACGCGTGCCAGCCTACGTGGGA
CCTGAGATACTCAGCTCACGGGCCCTCATACTCGGGCAAGGCAGCCGATGTCTGGAGCCTGGGCGTGGCGCTCTTC
ACCATGCTGGCCGGCCACTACCCCTTCCAGGACTCGGAGCCTGTCTGCTCTTCGGCAAGATCCGCCCGGGGGCC
TACGCCCTTGCTGCAGGCCTCTCGGCCCTGCCCCTGTCTGGTTGCTGCCTCCTTCGTGCGGAGCCAGCTGAA
CGGCTCACAGCCACAGGCATCCTCCTGCACCCCTGGCTGCGACAGGACCCGATGCCCTTAGCCCCAACCCGATCC
CATCTCTGGGAGGCTGCCAGGTGGTCCCTGATGGTCTGGGGCTGGACGAAGCCAGGGAAGAGGAGGGAGACAGA
GAAGTGGTTCTGTATGGCTAGGACCACCCTACTACAGCTCAGCTGCCAACAGTGGATTGAGTTTGGGGGTAGCT
CCAAGCCTTCTCCTGCCTCTGAAGTGAAGCAACCTTCACTGCGCTTCCAGAAGGGAGAAAGGCAGAAGCCTGTGT
GGAGTGTGCTGTGTACACATCTGCTTTGTTCCACACACATGCAGTTCCTGCTTGGGTGCTTATCAGGTGCCAAGC
CCTGTTCTCGGTGCTGGGAGTACAGCAGTGAAGCAAGGAGACAATATTCCTGCTCACAGAGATGACAACTGGC
ATCCTTGAGCTGACAACACTTTTCCATGACCATAGGTCACTGTCTACACTGGGTACACTTTGTACCAGTGTCCGC
CTCCACTGATGCTGGTGTCTCAGGCACCTCTGTCCAAGGACAATCCCTTTCACAAACAAACCAGCTGCCTTTGTAT
CTTGATACCTTTTCAGAGAAAGGGAGGTATCCCTGTGCCAAAGGCTCCAGGCCTCTCCCCTGCAACTCAGGACCCA
AGCCCAGCTCACTCTGGGAAGTGTGTTCCCAGCATCTCTGTCTCTTGATTAAGAGATTCTCCTTCCAGGCCTAA
GCCTGGGATTTGGGCCAGAGATAAGAATCCAACTATGAGGCTAGTTCTTGTCTAACTCAAGACTGTTCTGGAAT
GAGGGTCCAGGCCTGTCAACCATGGGGCTTCTGACCTGAGCACCAAGGTTGAGGGACAGGATTAGGCAGGGTCTG
TCCTGTGGCCACCTGGAAAGTCCCAGGTGGGACTCTTCTGGGGACACTTGGGGTCCACAATCCCAGGTCCATACT
CTAGGTTTTGGATACCATGAGTATGTATGTTTACCTGTGCCTAATAAAGGAGAATTATGAAATAAAAAAAAAA
AAAAAA

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FIGURE 5639

MRATPLAAPAGSLSRKKRLEDDNLDTERPVQKRARSGPQPRLPCLLPSPPTAPDRATAVATASRLGPYVLL
PEEGGRAYQALHCPTGTEYTCKVYPVQEAPAVLEPYARLPPhKHVARPTEVLAGTQLLYAFFTRTHGDMHSLVRS
RHRIPPEAAVLFRQMATALAHCHQHGLVLRDLKLCRFVFADRERKKLVLENLEDSCVLTGPDDSLWDKHACPAY
VGPEILSSRASYSKAAADVWSLGVLFMTLAGHYPFQDSEPVLLFGKIRRGAYALPAGLSAPARCLVRCLLRREP
AERLTATGILLHPWLRQDPMPLAPTRSHLWEAAQVVPDGLGLDEAREEEGDREVVLYG

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FIGURE 5640

GGGAGTCCGGGGACCCGCGATCAGCCCCGGAGGACGGGGTGGGGTGCGCCCAAACAGGAGCGCCGGGACCGCTGG
GACCCCGCACTCGGCGTCCGCCGCCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTCCGG
CCCCCCTCCCAGTCCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTTCCGCCGAAGCCGCTCCCCTTGC
GAAGAACTGGGGCCTCCCGGGAGGAGAGAGGGCTTTGCCTTGAACCCGGGACGCCAGGGGCGCTCCCGCAAGTG
GGGGTCTCTCCGGGACTTGGAAACGCCCCGGCTGGGTGGTGTCCGGGCGTCTTTTCCCGCTTCTTCCCACCTCGGC
TGGTCCCGTTTCTCTCTGCGCCAGTGCAGGACCTGTCTCGGCGCCCGCTGCCCTCTCACCGCCCCACGCAGGATC
CCGGCCTGGTACCCGGGCAGTGTGATGCTTCCCGACTGCCGCGGGGACAGCGAGGCACACACAGGGCTTGGGCCG
CGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCTCTCCAGGCGACCCGGAGGTAGCATTTC
CCAGGAGGCACGGTCCCCCCCCAGGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA
AATGGCCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC
AGAGCAACGGGTGCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGGCTGTGGGTGAG
CGTGGAGGATGCTCAGATGCACACCGTCAACCTCTGGCTCACAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA
GGACATGGTTTTTCTGGACTATGGCTTCCCACCACTCTTGAGCAGTGGGTGATTGGGCAGCGGCTGGCACGAGA
CCAGGAGACCTGCACTCCCATGGGTGCGGCAGAATGGGGACAGTGCCTACCTCTATCTGCTGTGAGCCCGCAA
CACCTCCCTCAACCTCAGGAGCTGCAGCGGGAGCGGCAGCTGCCGATGCTGGAAGATCTGGGCTTCAAGGACCT
CACGCTGCAGCCGCGGGGCCCTCTGGAGCCAGGCCCCCAAAGCCCGGGGTCCCCAGGAACCCGGACGGGGGCA
GCCAGATGCAGTGCCTGAGCCCCACCGGTGGGCTGGCAGTGCCTCGGGTGCACCTTCATCAACAAGCCACGCG
GCCTGGCTGTGAGATGTGCTGCCGGGCGCGCCCCGAGGCCTACCAGGTCCCGCCTCATAACAGCCGACGAGGA
GGAGCGAGCGCGCCTGGCGGGCGAGGAGGAGCGCTGCGTCACTACCAGCAGCGGAAGCAGCAGCAGCAGGAGGG
GAACTACCTGCAGCACGTCCAGCTGGACCAGAGGAGCCTGGTGTGTAACACGAGCCCGCGAGTGCCCCGTGTG
CTACTCGGTGCTGGCGCCCGGCGAGGCCGTGGTGTGCTGCGTGTGCTGTGACACCTTCTGCAGGGAGTGCCTGCA
GGGCACCATCCGCAACAGCCAGGAGGCGGAGGTCTCCTGCCCTTCATTGACAACACCTACTCGTGTCTGGGCAA
GCTGCTGGAGAGGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTTCTAGACCTGGGCATCTCCAT
TGCTGAAAACCGCAGTGCCTTCAGCTACCATTGCAAGACCCAGATTGCAAGGGATGGTGTCTTTTGAGGATGA
TGTCAATGAGTTACCTGCCCTGTGTGTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAA
CTGCAAGGAGTATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCT
GAAGGTGATGCTGCAGCAGGGCGAGGCCATGCGCTGCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTG
CGACTGGATCCGCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCACGCTGGGGCCCTGGGGG
CCCAGGAGACACCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCTTGCCACCCAAGCTGTGAGAACTGCCA
CTGAGCTAAAGATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTTAGAATGTAGCTCAGGGAGC
TTCGTGGACGGCCTTGCTTGTGTAGCGTTGTAGGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTCACATCTGCC
CCAGTGCCTTTGTCTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCTGCGGCTCCCACCTCTGCCTGACCC
CAGCCTTAAACATAGCCCCTGCCAGAGGCCCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCTCCACCAC
AACACTCATCTGTCAAACACCAAGCACTCTCAGCCTCCCCGCCTTACGCTGTCAGCTTTCTGGGGCTAACTTCTC
TGCCTTTGTGGTTGGAGGCCTGAGGCCTCTTGGAACCTCTGCTAACCTGTTTACAGAGCCAGGAAGGAGACTGCACA
GTTTTGAAAGCACAGCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAA
ATGGTTTTCCGGGAA

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FIGURE 5641

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTVRPDMTVASLK
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQERQLRMLEDLGFKDL
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPPVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE
ERARLAGEEEEALRQYQQRKQQQQEGNYLQHVQLDQRSVLNTEPAECPVCYSVLAPGEAVVLRECLHTFCRECLQ
GTIRNSQAEVSCPFIDNTYSCSGKLLEREIKALLTPEDYQRFDLGISIAENRSAFSYHCKTPDCKGWCFFEDD
VNEFTCPVCFHVNCLLCKAIHEQMNCKEYQEDLALRAQNDVAARQTTEMLKVMLQQGEAMRCPQCQIVVQKKDGC
DWIRCTVCHTEICWVTKGPRWGPGGPGDTSGGCRCRVNGIPCHPSCQNH

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FIGURE 5642

GGGAGTCCGGGGACCCGCGATCAGCCCCGGAGGACGGGGTGGGGTCGCCCCAAACAGGAGCGCCGGGACCGCTGG
GACCCCGCACTCGGCGTCCGCCGCCGCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTCCGG
CCCCCCTCCCAGTCCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTTCCGCCGAAGCCGCTCCCTTGC
GAAGAACTGGGGCCTCCCGGGAGGAGAGAGGGCTTTGCCTTGAAACCCGGGACGCCAGGGGCGCTCCCGCAAGTG
GGGGTCTCCGGGACTTGGAACGCCCCGGCTGGGTGGTGTCCGGGCGTCTTTCCCCGCTTCTTCCCACCTCGGC
TGGTCCCGTTTCTCTCTGCGCCAGTGCGGACCTGTCTCGGCGCCCGCTGCCCTCTCACCGCCCCACGCAGGATC
CCGGCCTGGTCACCGGGCAGTGTGATGCTTCCCGACTGCCGCGGGGACAGCGAGGCACACACAGGGCTTGGGCCG
CGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCCTCTCCCAGGCGACCCGGAGGTAGCATTTT
CCAGGAGGCACGGTCCCCCCCCAGGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA
AATGGCCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC
AGAGCAACGGGTGCCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGGCTGTGGGTGAG
CGTGGAGGATGCTCAGATGCACACCGTCAACATCTGGCTCACAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA
GGACATGGTTTTTCTGGACTATGGCTTCCCACCACTTGTGAGCAGTGGGTGATTGGGCAGCGGCTGGCAGGAGA
CCAGGAGACCTGCACCTCCCATGGGGTGCGGCAGAATGGGGACAGTGCCTACCTCTATCTGCTGTGAGCCCGCAA
CACCTCCCTCAACCTCAGGAGCTGCAGCGGGAGCGGCAGCTGCGGATGCTGGAAGATCTGGGCTTCAAGGACCT
CACGCTGCAGCCGCGGGGCCCTCTGGAGCCAGGCCCCCAAAGCCCCGGGTCCCCAGGAACCCGGACGGGGGCA
GCCAGATGCAGTGCCTGAGCCCCACCGGTGGGCTGGCAGTGCCTCGGGTGCACCTTCATCAACAAGCCACGCG
GCCTGGCTGTGAGATGTGTGCTGCCGGGCGCGCCCCGAGGCCTACCAGGTCCCCGCTCATACCAGCCCGACGAGGA
GGAGCGAGCGCGCCTGGCGGGCGAGGAGGAGCGCTGCGTCACTACCAGCAGGGAGTGCCTGCAGGGCACCATCC
GCAACAGCCAGGAGGCGGAGGTCTCCTGCCCTTCA**TGACA**ACACCTACTCGTGCTCGGGCAAGCTGCTGGAGA
GGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTTCTAGACCTGGGCATCTCCATTGCTGAAAACC
GCAGTGCCTTCAGCTACCATTGCAAGACCCAGATTGCAAGGGATGGTGTCTTTTGGAGATGATGTCAATGAGT
TCACCTGCCCTGTGTGTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAACTGCAAGGAGT
ATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCTGAAGGTGATGC
TGCAGCAGGGCGAGGCCATGCGCTGCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTGCGACTGGATCC
GCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCCACGCTGGGGCCCTGGGGGCCAGGAGACA
CCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCTTGCCACCCAAGCTGTCAGAACTGCCACTGAGCTAAAG
ATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTTAGAATGTAGCTCAGGGAGCTTCGTGGACGG
CCTTGCTTGCTGTAGCGTTGTAGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTCACATCTGCCCCAGTGCCTTT
GTCCTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCCTGCGGCTCCCACCTCTGCCTGACCCAGCCTTAAAC
ATAGCCCCTGGCCAGAGGCCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCCTCCCACCACAACACTCATCT
GTCAAACACCAAGCACTCTCAGCCTCCCCGCCTTCAGCTGTCAGCTTTCTGGGGCTAACTTCTCTGCCTTTGTGG
TTGGAGGCCTGAGGCCTCTTGAACTCTTGCTAACCTGTTTCAGAGCCAGGAAGGAGACTGCACAGTTTGAAGC
ACAGCCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAAATGGTTTTCCG
GGAA

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FIGURE 5643

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTVRPDMTVASLK
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQREERQLRMLEDLGFKDL
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPPPVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE
ERARLAGEEEEALRQYQQGVFAGHHPQQPGGGGLLPLH

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FIGURE 5644

GACGATGGGGCTGCGTGCAGGAGGAACGCTGGGCAGGGCCGGCGCGGGTCGGGGGGCGCCCGAGGGGGCCCGGGCC
GAGCGGCGGGCGCGCAGGGCGGCAGCATCCACTCGGGCCGCATCGCCGCGGTGCACAACGTGCCGCTGAGCGTGCCT
CATCCGGCCGCTGCCGTCCGTGTTGGACCCCGCCAAGGTGCAGAGCCTCGTGGACACGATCCGGGAGGACCCAGA
CAGCGTGGCCCCCATCGATGTCTCTGGATCAAAGGGGGCCAGGGAGGTGACTACTTCTACTCCTTTGGGGGCTG
CCACCGCTACGCGGCCTACCAGCAACTGCAGCGAGAGACCATCCCCGCCAAGCTTGTCCAGTCCACTCTCTCAGA
CCTAAGGGTGTACCTGGGAGCATCCACACCAGACTTGCAGTAGCAGCCTCCTTGGCACCTGCTGCCACCTTCAAG
AGCCCAGAAGACACACCTGGCCTCCAGCAGGCTGGGCCATGCAGAAGGGATAGCAGGGGTGCATTCTCTTTGCAC
CTGGCGAGAGGGTCTGACTCTGGGCACCCCTCTCACCAGCTACAAGGCCTTGGACTCACTGTACAGTGTGGGAGC
CCCAGTTCCACCTCTGTGACAAATAGGATCATGGCCTTACCCTTGAAGCATTACCGAGAAGGAGAACAGAGATGG
GCTTGAAGAGCCACGTGCTGCCGGCTCCAAATTCCCAAGGACAAGGATCCCTCTGCATTTTGTCTATGTAACCT
CTTATATGGACTACATTGAGCTGCAAGGAAAGGAAAACCTTGATTGCAGTGGTTTAAACAAACAGAAGATTGTTT
TTCCACATAGCATGGATTCTGGAGATGGGTGGCTAATGGTATTGGTTCAACAACCTCCACGAAGGTAGGGGTCACG
TCTTGGATCCTTTTGCCTTAATCTCAGTGCTCGTTACTTTCATGGTCCCAAGATGGCTGCTGTATCCCCAAGAATC
ATGTCTGCGTTCAAGGAAGGAGGGGTGGAGGAAGAGGAAGGGCCAACTAGCTGGACCCGTCACCTTCTATCAGA
AAGTAAAACCTCGTCAGAAGTCTGTTTCCCTGCTCTCTCCCTCTGCATATCTTCACTTAGATGCCCTTGGCCCCGAG
CCAGCTACCATTGCACCTCTAGCTGCAAACAAAGCTAAGACAGCAGGGAACAGAATTGTATGGCTGAATAGACC
AATCGTGTTCATCTACTGAGACTGGCACACTGCCTCCTGCAATAAACTGGGATCCCATTACCAAGAGAGAAAT
GCAGAATTGTGTACAGTTAGCTTTTGTGTGTAACAAACCATCCCCAACTTGGCAGCTAGAAACAAACCTGT
ATTTTCCCAACATCCTATGGGTGGCAATTTGGGCTGGGCTCAACAGGGCAGTTCTGCTGCTCACACCTGGGATC
CCTCATGGAGCTAAGGTCAGCTGTTACCTCAGCTGGGCCTGGATGGTCTAGGATAGCCTTACTCACTTGCCTGGC
AGGTGACAGGCTGTTGGCTGGAATTGCTTGGTTCTCCTCCATGTGGCCTCTCCAGCAGGCTAGCTCAGGCTTATT
CACATGATGGCTTCAGGATTCCAAAGAGAGTGAGAGTAGAAGCTGAAAGACTTCTTGAGTTCTTGGCCTGGAAC
GGGACTAGGACAGTGTCACTTCTGCTAAGTTCTTTTGGTCAGAGCAAATCACAAGGCTTTACCCAGATTCAAGGG
ATGAGAAACAGACTACATGTCTTGATGAGGGGAACCACAAAGAGCTTGTGGCCATTTTTCACCTATCACAAATAA
TTTTGGATGGGTATTTATTTGGATAAAGGTATTTCCCTCTTCCCCCTTTCTCTCTGTCTCATGGGGCCTCACTCT
GCCAAGTTGGAAGGCACTAAGACATTGTCCTGGCCCTCAGGGTCTAGGGGAAGAGGTGTTGGGGCAGGAAGTGAG
TCTCTCCATGGGCTGGACCCACTGTAGTAGGAGTGCCTCCTTGTCTGCACTGCTGGTATGGGGTTAGGCCAGGTA
GGACATTCCAGAGGGGCTTCTGAAAACCAAGAGTCCCTGGGGAAAGGGAACAGAGTAAGGCAGGCCTTGTCTCA
CTGCCCTCTAAGGGAACCTGGTCACTCGGCACCTTTTAAGCCTCAGTTTCTCCAGTTCAATAATAAGGACAAGAGC
TTTTCCCATGCATTCTCTTTCCCCGGGAAAGTTGACTGAGGTGACCAGTAATAGAATTGAAAAGGGAGAGTGTCT
TCAGTGCAATGTGGCATCCTGGATTGGGTCTTGGAAACAAAACAGGACATTAGTGGGAAAATTGGAAATCTGAAA
AAAGTCTGAATTTTAGTTAATATACCAATTTTCACTCTCTTGGTTTTGACAGATGTACCATGGTGATGTAAGATGT
TGACCTTGGGGTAGGCTGGGTGAAGGTATACAGGAACCTTTTGTACTATCTCTGCAACTTCTCTGTAAATCTAG
TATCATTCAAAATAAAAGTTTATTTAATTT

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FIGURE 5645

MGLKSHVLPAPNSQGQSLCIFVYVTSYMDYIQLQGKENLDCSGLNKQKIVFPHSMDSGDGWLMVLVQQLHEGRG
HVLDPFALISVLVTSWSQDGCCIPKNHVCVQGRRGGGRGRAKLAGPVTFYQKVPRQKSVSCSLPLHIFT

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FIGURE 5646

GTCTGAGCGCGCTCGGCTTTTTTTTTTTTTTCTCTCTCCTTCCCTGCAGCAGTGGCCGGTGTCCAGCTGCCTACT
TTCTGCCCCGGATCTCTGGCTCCTCATCTCTCCGGTCTCCGCAGACTAAAGCCCTCGGGATATGCAGCAGCCATGC
CTGTGCACACGCTGAGCCCCGGAGCCCCGTCCGCCCCCGCCCTACCTTGCCGCTGCGGACCAGGGTCCCTGGCT
ACCTGCTACGGGGGCCGGCAGATGGTGGAGCCCCGAAACCGAGCGCTGTGGAGCGCCTGGAGGCCGACAAGGCCA
AGTACGTCAAGAGCCTGCACGTGGCCAACACCCGCCAGGAGCCTGTGCAGCCCCTGCTGTCCAAACAGCCGCTCT
TTAGCCCTGAGACTCGCCGCACAGTGCTCACGCCCAGCCGCCGAGCCCTGCCTGGCCCCCTGCCGACGGCCCCAGC
TGGACCTGGACATCCTCAGCAGCCTCATCGACTTGTGTGACAGCCCCGTGTCCCCTGCCGAGGCCAGCCGCACTC
CTGGACGGGGCCGAGGGAGCCGGCCGTCTCCCCCAGCCACCCCTCCGCGACCGCCGCCAGTACCTCTGCGGTCC
GCCGGGTGGACGTCCGCCCCCTGCCCGCTCGCTGCCCGGCCCTGCCCATCACCCGGCCCTGCCGCCGCTCCA
GCCCAGCCCCGGCCGCCGGGTTTGCAACGCTCCAAGTCGGACTTGAGCGAGCGCTTTTCTAGGGCAGCCGCTGATC
TCGAGCGCTTTTTTAACCTTCTGCGGCTGGACCCGGAGGAGGCGAGAGGGTTGGGTGTGGCCACCTGGCACGGG
CCAGCTCGGATATCGTGTCCTGGCAGGGCCCAGTGCTGGGCCGGGCAGCTCTGAAGGGGGCTGCTCCCGCCGCA
GCTCGGTGACTGTTGAGGAGCGGGCCCGGGAGCGCGTTCCCTATGGCGTGTGCGTGGTGGAGCGCAATGCCCGCG
TGATCAAGTGGTTGTATGGGCTAAGGCAGGCTCGGGAGAGCCAGCAGCTGAAGGCTAGGCGCCACTGGGCCTGG
AATTCGCCACAGGACGGATCTTACAGAGGCAAGTGGTCCCTGGACCTCTCTTGATCCATTCTCTAGACGGCCGT
GTCAGAGGCTCCACCCTGTTGTGAACCTGGTATGGAGGCAAAGGCTTAGAGGCTGGACCAGCATTGTTGGGCAAG
GACTGACTCTCCAAGGGTTTGTCTTGGCTTTGGACACCTGAGAACCCCTCCTCCCCTCCCCAATAACAAGGT
TTTTGACATGAGTGTACTCCTGCTTAGTTCCCTCTTGTGGGGCTGCATTTGCGGTGCTTTGCCCTCCCCACTGTGA
GTGAGGGGCCAAGGGATCTCCTCAATCCTGTCTCCCCAGCGGCTCTGTTTCTCCTCCTTCTTGGCCTCTGTC
CTTTGCTGACTTCTCCTTACCCAGCAGAACTCACCTGGGGTCGGGCAGTGGGGAGGGGCCTATCCACTG
CTCTTCTAGTCTTGGCAGCTGGCCTAGGTGGGCAGACTATAGGAGGACTGGTTAGGAGTCTGCATTGCTTTG
ACTTCCCTCTCCTTGGTTAATAAACACAAATGCTTGTCTC

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FIGURE 5647

GCAAGAACCAGCGCAAGAGGGAAGCAGAGTTATAGCTACCCCGGCCGCGGAGCCGGCTCACTGCACTACCCCGC
CCCCCTTCTTTCCCTCCAGACGCCGAAGTCGCGGGCGCTCATGGCGGGCCTGGAGGTACTGTTTCGCATCGGCAGCGC
CGGCCATCACCTGCAGGCAGGACGCGCTCGTCTGCTTCTTGCAATTGGGAAGTGGTGACACACGGTTACTTCGGCT
TGGGTGTGGTGACCAGCCGGGTCCCAATGATAAGAAGTCAGAACTGCTGCCAGCTGGGTGGAACAACAATAAAG
ACCTGTATGTCTCCGGTATGAGTATAAGGATGGGTCCAGAAAGCTCCTTGTGAAAGCCATCACCGTGGAGAGCA
GCATGATCCTCAATGTGCTGGAATATGGCTCACAGCAAGTGGCAGACTTGACCCTGAACCTGGATGATTATATCG
ATGCAGAACACCTGGGTGACTTCCACAGGACCTACAAGAACAGTGAGGAGCTTCGGTCTCGTATTGTGTCTGGAA
TCATCACACCTATCCATGAGCAGTGGGAAAAGGCTAATGTAAGCAGTCCCCACCGGAGTTCCCCCTGCTACCG
CCAGAGAGGTGGACCCACTCCGGATTCTCCACACCACCCACACACCAGTCGGCAGCCTCCCTGGTGTGATCCCC
TGGGCCCCGTTTGTGTGCGGGGAGAAGACTTAGACCCCTTTTGGGCCCTCGGAGAGGTGGCATGATTGTGGATCCCC
TGAGATCTGGCTTCCCAAGAGCACTTATTGACCCCTTCTCAGGCCTCCCGAACCGACTTCTCCAGGCGCTGTGC
CCCCAGGAGCTCGCTTTGACCCCTTTGGACCCATTGGGACCAGCCCACCGGACCTAACCCAGACCATCTCCCC
CGCCGGGCTACGATGACATGTACCTGTGAAGGCCTCAAGAATGTAACATCCCAGGCTTCCCTCCATTCTCTGGA
GCTGCCACCGCTGTCCCCATCAGCAACCATGTTCTTGCAAGGCTGGGGGCAAGGGATTCTGCTCATGTGTTTGCAG
ACCGGCTGGGATAGCCTCCCCACCCCTTATCAGAGCCAAGACACCTGCTGCAGCTCTCCACCTAGCTGCAGATAG
CTCCCAAAGAGAAATCAGTGTGTCTCTTTACCATCAGCTCCTCCCCCTTACCACCAGCTCCTCTCCACTTCCC
AAGGGAGACTCCGGCAACCTTCAGCAACATATATCTCGACCAGATGCAGTGCTATAAGAACAGAACGCATTTTG
GATGTTATTATTAAGAACCAATGTCAATACAGAATTATGTTGCCGGTTTCCCACTTTTCTTTTACATTAATG
CATAGCTGCTTCCATTTATGAGACTTTAGAGTTTGAAGTTTCTGTAGGGCTGAATGACTCTTTTCTGCCCAGGG
CCCATTCTTGCTTCTCAGGCACCTTCGTTTATTAATTGCCATTGCTCCTGACATCACTAAGATGGGTCCCCCTC
TGGCTGCATGAATGGAAATGAGTGACTGGAAATCCCATAGGCCACAAGAATGACTTTTACAAGGGCAGGAACATT
GTGGAAGACTGCATCATTCTGATGAGGCAAAATCCTCCAGCTATTCTGTCTGGGCCAGTTTTGTAGGTCCATC
TGTGCATGGGCAGCAGTAGTCAAAAAGCCAAGGAAAAAACAGAGCAGACCTGAAGGCTAATCTTATTTTTGCCAC
TAACTTAGTGAATGACCCTAAGCAAGTTCCTTCTCTCTTAGGGCCTTGTGCCAAGCCTATGAAATTGGAGGTGG
CTTCTCTGCTCTAAAGCATTTTGTATGTCTCATTCTGTGTTTGGTAACCCCTATAAACTGGGGCAGAGGAAAAGAA
TGATGGTTCAAGGCCATACTTCCCTTGAACCTTGTGTGGTTCTTGCCCTAATCTGTGGTTTTTGGACCCCATGGG
GCCAGACAGAGCACAGGAGCATGGGCTGCCTCTGAGTGTGGTGTGAACTTCGGGAGGAGCAGGGAGCCCTGCA
CCTTGTGTCTGGCCACCTGACCTTTGGTGTCTCCGGATCCTTTTTCAGCCCGAGGCCTGACAGACGCGGGCAG
TGATGAGCCCTGTTCTGGAGTGGAAGAGCAGATAGAGCACCAGGCTAAGAGGCACGAGATCAAGGCGGTAGTC
ACTTCCGCTCTGCAGCTAGCATTTCACCATATGTGGATCCTTTTCACTTCTCAGCTCCCTGGATTCTTCCCCTA
AATTAGGACCTATTATTTACCTGTAGGTAAGCAAGCTACTGTAGCTCTTCTGAGGTATCTGCCAGGCTGTTTTCT
GTAGCCTCAGATTGCCTATCTGCTTAGCCTGAGAACAGGTAGATGAAAATAAACTGATGCCTAGGCCAGGGTC
AGTCTCAGATGGAAGCTGGGCCTGGGTGGGGAGGCTAGCATGCGTGGCTCCCTGGGTATTTCTGTGAGTCCCCAT
GGCAAGCAGTGATTTAGTAAACACCCAGAGTCAGGGAAGCCAACCCTTGAAACCTTTAGAACATCTCTGCT
TTGGAGAAAGACCCAGAGATCAGGCAGAGGTGCAGATTCAATCATTACTATAACCTTTGAGAGATGGCAAATGG
GAGGAGTGTAGTCTTTGTTTTGGAATTGGACCATCTTGCAACCAAAAGGACTTAGAGCAGTTTGTCTATAAAG
ACATCCTTTATTATAAAAGGAAGTATTTAAAGGATGATAGAGACCATCAGATAGAAGCAGGGAAGGTAGATAACT
TTTAGGACCTTGATGTGAGGAAAAGATAAAATTTAAACAATAAATTTGCCACTTAGATTTTCTAGCAGCAAAGTC
CGAAAAGATAGTTATATACAAAATTCTGTTTTCTGAAAACAAAATTGTGATTACCTTCAGAATTGGCCATTTTT
TTTGTGAGTTTCTTGCATCAAGGACACTGAGAAACACAGTCATTGTCTTAGGTGTTCTATGGGAGGAAGTGAAT
AGAGCCTTTAGGAACCTTCTGGTCAAGCTTATGGTGTCTATTTTGTATCTGGGCCACTTCCCTCCTTCCAGTCATG
AGTAATCATCAAGGAGCAAGTTGGAGTGTTCAGGTGTATATTTGTAGAACCCAAAAGATTGGAGCCTTAACAA
TAAACATCAGCACT

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FIGURE 5648

GCGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTGGTCCACGCCGCCCGTCGCGCC
GCCCCGCCGCTCAGCGTCCGCCGCCGCC**ATCGG**GAGTGCAGGTGGAAACCATCTCCCCAGGAGACGGGCGCACCTT
CCCCAAGCGCGGCCAGACCTGCGTGGTGCACTACACGGGATGCTTGAAGATGGAAAGAAATTTGATTCCCTCCCG
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTTGCCCA
GATGAGTGTGGGTGAGAGAGCCAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT
CATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAACTGGAA**TGAC**CAGGAATGGCCTCCTCCCTT
AGCTCCCTGTTCTTGGATCTGCCATGGAGGGATCTGGTGCCTCCAGACATGTGCACATGAGTCCATATGGAGCTT
TTCTGATGTTCCACTCCACTTTGTATAGACATCTGCCCTGACTGAATGTGTTCTGTCACTCAGCTTTGCTTCCG
ACACCTCTGTTTCTCTTCCCTTTCTCCTCGTATGTGTGTTTACCTAAACTATATGCCATAAACCTCAAGTTAT
TCATTTTATTTTGTTTTCAATTTGGGGTGAAGATTGAGTTTCTAGTCTTTTGGATATAGGTTTCCAATTAAGTACA
TGGTCAAGTATTAACAGCACAAAGTGGTAGGTTAACATTAGAATAGGAATTGGTGTGGGGGGGGGTTTGCAAGA
ATATTTTATTTTAATTTTTTGGATGAAATTTTTATCTATTATATATTAACATTCTTGCTGCTGCGCTGCAAAGC
CATAGCAGATTTGAGGCGCTGTTGAGGACTGAATTACTCTCCAAGTTGAGAGATGTCTTTGGGTAAATTAAG
CCCTACCTAAACTGAGGTGGGGATGGGGAGAGCCTTTGCCTCCACCATTCCCACCCACCTCCCTTAAACCCT
CTGCCTTTGAAAGTAGATCATGTTCACTGCAATGCTGGACACTACAGGTATCTGTCCCTGGGCCAGCAGGGACCT
CTGAAGCCTTCTTTGTGGCCTTTTTTTTTTTTTCATCCTGTGGTTTTTCTAATGGACTTTCAGGAATTTTGTAATC
TCATAACTTTCCAAGCTCCACCACTTCCTAAATCTTAAGAACTTTAATTGACAGTTTCAATTGAAGGTGCTGTTT
GTAGACTTAACACCCAGTGAAAGCCCAGCCATCATGACAAATCCTTGAATGTTCTCTTAAGAAAATGATGCTGGT
CATCGCAGCTTCAGCATCTCCTGTTTTTTGATGCTTGGCTCCCTCTGCTGATCTCAGTTTCTGGCTTTTCTCTC
CTCAGCCCCCTCTCACCCTTTGCTGTCCTGTGTAGTGATTTGGTGAGAAATCGTTGCTGCACCCTTCCCCCAGC
ACCATTTATGAGTCTCAAGTTTTATTATTGCAATAAAAGTGCTTTATGCCGGCTTTTCTCAAAAAAAAAAAAAA
AAA

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FIGURE 5649

MGVQVETISPGDGRITFPKRGQTCVVHYTGMLEDGKKFDSSRDNRNKPFFKMLGKQEVIRGWEEGVAQMSVGQRAKL
TISPDYAYGATGHPIPPHATLVFDVELLKE

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FIGURE 5650

GCGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTGGTCCACGCCGCCCGTCGCGCC
GCCC GCCCGCTCAGCGTCCGCCGCCGCC**ATGG**GAGTGCAGGTGGAAACCATCTCCCCAGGAGACGGGCGCACCTT
CCCCAAGCGCGGCCAGACCTGCGTGGTGCACTACACCGGGATGCTTGAAGATGGAAAGAAATTTGATTCCCTCCCG
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTTGCCCA
GATGAGTGTGGGTCAGAGAGCCAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT
CATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAACTGGAAT**TGAC**AGGAATGGCCTCCTCCCTT
AGCTCCCTGTTCTTGGGTAAGGAAATGGAATACTGAAGGGCCCTTCACTGCCTTTGCTCCTCCCATGTTATGCCC
AGCGTTTGATGGGTAGCAGAGAGAAACAAAAACACCACAAGGCTATTTTTCCCCCTGCATTCTTTCTGTATTGAG
TATCCTTTCAGTGTTATTAGTGTATGCTTTGAATGTAAAAATTGGTCACCCTAAGGAAAGGAATTGGCATGTGTA
TGTTCCCAAGTTCAACTCATGGAGATGGCAGCTGTTTAAATGTTTTCTATGTAGTTTATAAATTAAACTGAATT
GAGGACTATGGAAATGTAGGCCAAATTTGTAGTGCCAACATTTTAGTTCTTTGGAAATAA

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FIGURE 5651

MGVQVETISPGDGRTFPKRGQTCVVHYTGMLEDGKKFDSSDRNKPFFKFMLGKQEVIRGWEEGVAQMSVGQRAKL
TISPDYAYGATGHPIPPHATLVFDVELLKE

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FIGURE 5652

GGCACGAGGGGCAAGCGGAACGCGGCAGCGGGGCTGGGCCTGTGCGGCGGCCGCCGGAGCGCTTTGGAAGGCGCA
CGGGGCGAAGATGGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTTCGTGGCGGTGACGGGCGCCGAGGAGGACCG
GGCCCGCTTCTTTCTCGAGTCGGCCGGCTGGGACTTGACAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGA
TGAAGACATTGTGACCATTTCGCAGGCAACCCCCAGTTCAGTGTCCAGAGGCACAGCCCCAGTGATAATAGAGT
GACATCCTTCAGAGACCTCATTTCATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGG
GGGCTCAGAGAGAAGTGGACAGCAGATTGTTGGCCCTCCCAGGAAGAAAAGTCCCAACGAGCTGGTGGATGATCT
CTTTAAAGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACC
GAGACCATTTGCAGGAGGTGGCTACCGCCTTGGGGCAGCACCAGAGGAAGAGTCTGCCTATGTGGCAGGAGAAAA
GAGGCAGCATTCCAGCCAAGATGTTTCATGTAGTATTGAACTCTGGAAGAGTGGATTTCAGCCTGGATAATGGAGA
ACTCAGAAGCTACCAAGACCCATCCAATGCCAGTTTCTGGAGTCTATCCGCAGAGGGGAGGTGCCAGCAGAGCT
TCGGAGGCTAGCTCACGGTGGACAGGTGAACTTGGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAA
AGGAGCCTTCAAAGCCTTCACTGGCGAGGGTCAGAACTGGGCAGCACTGCCCCCAGGTGTTGAGTACCAGCTC
TCCAGCCCAACAGGCAGAAAATGAAGCCAAAGCCAGCTCTTCCATCTTAATCGACGAATCAGAGCCTACCACAAA
CATCCAAATTTCGGCTTGCAGACGGCGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCG
ACTCTTCATCGTGGATGCCCCGCCAGCCATGGCTGCCACCAGCTTTATCCTCATGACTACTTTCCCGAACAAAGA
GCTGGCTGATGAGAGCCAGACCCTGAAGGAAGCCAACTGCTCAATGCTGTCATCGTGCAGCGGTTAACATAACC
GCCAGCCAGCTGCCTGGCCTCCCTCCTGTGTTTTCCCATGGCCAGTGGCCATGCCCCATGGGGATCGCCCTCCT
GCCCCCTTGTGCACACCCAGCAGTCCAGTGCAACGTCTCCTCCATAGCTCTGGGTTCTTAGATCTTGGTTGGACG
TTTGTCTTCTCCTTAGTTGCATTTCTGGGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAAAATAAAA
CAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5653

MAAERQEALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF
RDLIHDQDEDEEEEGQRFYAGGSERSGQQIVGPPRKKSPNELVDDLFGAKEHGAVAVERTKSPGETSKPRPF
AGGGYRLGAAPEEESAYVAGEKROHSSQDVHVVLKLWKSGFSLDNELRSYQDP SNAQFLESIRRGEVPAELRRL
AHGGQVNLDMEDHRDEDFVKPKGAFKAFTGEGQKLGSTAPQVLSTSSPAQQAENEAKASSSILIDSEPTTNIQI
RLADGGRLVQKFNHSHRISDIRLFIVDARPAMAATSFILMTTFPNKELADESOTLKEANLLNAVIVQRLT

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FIGURE 5654

ATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATCCTGCAGGACGGCCGG
ATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTTGATCCTCTGTGACTGTGATGAGTTCAGAAAG
ATCAAGCCAAAGAACTCCAAACAAGCAGAAAGGGAAGAGAAGCGAGTCCTCGGTCTGGTGCTGCTGCGAGGGGAG
AATCTGGTCTCAATGACAGTAGAGGGACCTCCTCCCAAAGATACTGGTATTGCTCGAGTTCCACTTGCTGGAGCT
GCCGGGGGGCCAGGGATCGGCAGGGCTGCTGGCAGAGGAATCCCAGCTGGGGTTCCCATGCCCCAGGCTCCTGCA
GGACTTGCTGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAGGTGATGACCCACAAGGAAGAGGTACTGTT
GCAGCCGCTGCAGCTGCTGCCACAGCCAGTATTGCCGGGGCTCCAACCCAGTACCCACCTGGCCGTGGGGGTCTCT
CCCCACCTATGGGCCGAGGAGCACCCCCTCCAGGCATGATGGGCCCACCTCCTGGTATGAGACCTCCTATGGGT
CCCCCAATGGGGATCCCCCTGGAAGAGGGACTCCAATGGGCATGCCCCCTCCGGGAATGCGGCCTCCTCCCCCT
GGGATGCGAGGCCTTCTTTGA

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FIGURE 5655

MTVGKSSKMLQHIDYRMRCILQDGRIFIGTFKAFDKHMNLILCDCDEFKIKPKNSKQAEREKRVLGLVLLRGE
NLVSMTVEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVPMFQAPAGLAGPVRGVGGPSQQVMTPQGRGTV
AAAAAATASIAGAPTQYPPGRGGPPPMGRGAPPPGMMGPPGMRPPMGPPMGIPPGRGTPMGMPPPGMRPPPP
GMRGLL

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FIGURE 5656

GGCACGAGGCTTCTGGCCTTCTCCTGTCAGCAGTTCTCAGTCAACATGTACTTCAGATCTTCTGGGCTTATGT
GCAGAAAATCACTTCCATCCAGGGAATTCTAGCCCAGGGCATTGGAAACAGCAGGGGCAGCAGTATTCCCATGTA
AGCTGTTGGTTTGAAAATGCAGAAGGTCAGGAGAGAGGAGGTGGCTCCAAACCCTGGTCTGCAAGGACAGAGGAG
AGAGAAACCTCAAGGGCATTCCCCAGCCCCTCCAAAGACAGTCAGCAAGTCCTAGAAAAGGCAACATGGTGGTA
GAAACAGAGCCCGAGTCAGCCCAAAGACCAAACCCTGTGCAGCTAGACAAAGGCTTGAAGGAATTAGAAACCTTG
AGATTTGGAGCAATCAACTGTAGAGAGTATGAACCGGACCATAACCTGGAATCAAACCTTTATTACAAACCCGAGG
ACCCTCTTAGGGAAGAAGCCCTACATTTGCAGTGATTGTGGGCGAAGCTTTAAAGATAGATCAACCTCATCAGA
CACCATCGTATACACTCGATGGAGAAGCCTTATGTGTGCAGTGAGTGCAGGGCGAGGTTTTAGCCAGAAGTCCAAC
CTCAGCAGACACCAGAGAACACATTGAGAAGAGAAGCCTTATTTGTGCAGGGAGTGTGGGCAAAGCTTTAGAAGT
AAGTCCATCCTCAATAGACATCAGTGGACTCACTCAGAGGAGAAGCCCTATGTTTGCAGCGAGTGTGGGCGAGGC
TTTAGCGAGAAGTCATCCTTCATCAGACACCAGAGGACACACTCCGGTGAGAAACCCTATGTGTGCCTGGAGTGT
GGACGAAGCTTTTGTGATAAGTCAACCCTCAGAAAACACCAGAGGATACACTCAGGGGAGAAGCCTTATGTTTGC
AGGGAGTGTGGGCGAGGCTTTAGCCAGAACTCAGATCTCATCAAACACCAGAGGACACACTTGGATGAGAAGCCT
TATGTTTGCAGGGAGTGTGGGCGAGGCTTTTGTGACAAGTCAACCCTCATCATAACGAGCGGACGCACTCTGGA
GAGAAGCCTTATGTGTGTGGTGAGTGTGGCCGAGGCTTTAGTCGAAATCACTCCTCCTTGTCCACCAGAGGACA
CACTCAGGGGAGAAGCATTATGTCTGCAGGGAGTGTAGGCGAGGTTTTAGCCAGAAGTCAAATCTCATCAGACAC
CAGAGGACGCACTCAAATGAGAAGCCTTATATTTGCAGGGAATGTGGGCGAGGCTTTTGTGACAAGTCAACCCTC
ATTGTACATGAGAGGACACACTCAGGAGAGAAGCCTTACGTGTGCAGTGAGTGTGGCCGAGGCTTTAGCCGAAA
TCACTCCTCCTTGTCCACCAGAGGACACACTCAGGGGAGAAGCATTATGTTTGTAGGGAGTGTGGGCGAGGCTTT
AGTCATAAGTCAAATCTCATCAGACACCAGAGGACACACTGACGGGAGAAACCTGTGTATGCAGGGGTGATGAAC
AAGACCTGAGTGACCAGTCAAGCCTCATGTTACCCAGAGAGACACATGGGGAGTAGACCCTGTGTACACAGATT
GTGAGTGAAGTTCCAGAGATGTGTGAGCCCTTATCAGGCATGGGAGGGACACGTTCCAGGAGAGGAGCCTTATGAG
TATAGAGTACGGGCAACTGTAGCCATCAGTCGGCCTTGAGCATGCACAAAAGGACACACTTAGGAGAGAAGTTTA
TGTGTAGGGACTGTGGGAAGGCTTTAGCAATAATCAACATTTACCAGACATCCAATGACAGCCTCAGGGGAAAGC
ACCCTTGTCTGGGGAGTGTGGGGAGCATCAGTAAAAGAAATGGACACTCAGGCACAGAGTGGCCCTCAGGAAGGA
GGTCTTTGTTTGTAGGATGTATGGGCAAAGCTTTTGTGATCACACACCACAGGGAGAATCTGCATGTGGGGACAC
TGTGGAGCTCTGCCCAGATGACCTTTTACGGGGTAACACCCAGCTGCTTGAGAGAACAGTGTGCTGCTGGCAG
AGATGCATTCCAGAGATGCACTCCGCTCTGGAACCTCACTCTCAGCCACAGGGAGCTGCATGCACCACAGGGGCAA
TGCACCTTTGCAGGGGTACCTTCTGGCCCCAACCTTGACTCAACGGGGACAACCTCCAGAAGGTCAATCCAGATC
CAGAGATCCCCATCGAACTGAAGGATCACTGGGTTGCAGACACATTGCAGGTGAGCTTCTTCTCTGCCCAGTCC
TGCCCTCACTCCCCAGTGAATCCTCAATTTTCTGTCTCGTTGTCTGTCCAGATAATTGATTCTAAGACATGTTAG
GTATATAAGGAGTGTAGATAAGGCTTCAGCCATGAGTCACCCCCAGTAAGCCCCAGAGTATATTGAATAGAAAT
TCTGCATGTGTGGGGAGAAATGGACAAGGACTTAGGAAAAAGTCCTCATCAAAGAACAGCTTTTTTGGGACAAGCT
TTACATGGGTGGGGAGGGAAAAATGTGAAACACATTAGCAATAAGTTAAACCTCATCTTGTACTAAAGGAGGACAC
ACTCAGGGAGAAGACCTCTGTGGGCAGGGCTTGTGGGTGGAGCTTCATCCCGATGTCACTCCTCAACTGACTTAG
GAGGACAGTCTTGCTACCCCAAGTCACTACCTCACTCACCTCTGAGGGATTTTCAGGAAATGTCTTGACTCCCCC
ATGTACTCTGTATGTGAGCGAAGATGGCAGTAACTGTTAAATAAGCATTCTTTTCTACTTCTTGAATCAGATGA
AATAAAAAAGCAGGCTTTATTTAAGTAATCAAAAAAAAAAAAAAAAAA

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FIGURE 5657

MVVETEPSSAQRPNPVQLDKGLKELETLRFGAINCREYEPDHNLESNFI TNPRTL LGKKPYICSDCGRSFKDRST
LIRHHRIHSMEKPYVCSECGRGFSQKSNLSRHQORTHSEEKPYLCRECGQSFRSKSILNRHQWTHSEEKPYVCSEC
GRGFSEKSSFIRHQRTHSGEKPYVCLECGRSFCDKSTLRKHQRIHSGEKPYVCRECGRGFSQNSDLIKHQRTHL D
EKPYVCRECGRGFCDKSTLIIHERTHSGEKPYVCGECGRGFSRKSLLL VHQRTHSGEKHVCRECRRGFSQKSNL
IRHQRTHSNEKPYICRECGRGFCDKSTLIVHERTHSGEKPYVCSECGRGFSRKSLLL VHQRTHSGEKHVCRECG
RGFSHKSNLIRHQRTH

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FIGURE 5658

GATGAGGGTCTGCGGGGCCGCCAAAGGAGCCACGGATCTCACCCACCTGCGGCTGCAGCAGACTGATCTCCTCC
ACTTCCTTCAGCGCCAGCAGCGCGTAGCCGACCGCGTGCTCAAACAGCACGTGCAACAGCACCTGGAACGGGAGC
CGGGGCGCGAGCGTCAACGCAACCTCAGCGTCTGCCGGAACCCGTTCCCAGGGCAGGCGCAGGCGCAGGCGCAGG
CCCAGGCCCAGGCCCAGGCCCTGTCTGCGGGCCGAACGCAGGCCGAAACCCCCACCGTCGCGTCGCCCCGCGCCCC
GCAACCACTCCTCACCATGGCGCCAGCTCCCGGGTTCGGCTCGCAATGCGGCTAGCGCGCTCCGGCGCGCGGAAC
CAGGCTCCAGAGGCCACGCCCCCGCCCCCGACCAATCGGAGGCCGGGGACGACACCACTCTCCGGCCTTTGGAG
GGGCGCCCAGGGTGGTATCGCCCGGAGCGCGGGCTGGGTGGTGCCGAGCGCGGGCGAGCGGGCCTTTTCCGGCC
TCTGCAGCTGCGCGGGCGGGCGTGGTTGCCGGGGACGCGCGGGCCCCCGGTTCGGGCACTGCAGGCGGCGAAACGAC
TTGGGAAGGCCCTTTTCGGGGTAATAGTCCGGTTTCTGATGTTCTTGTTCATATGAGTTACGGGCAGCAGAGCTGGG
TGAAGTCGGGGCGGGAGGTCCGCGTGGGGCGCGGCGTCCATCCCAGACAGAGACCGCTGCCTAGCCGGCTTCCCG
CTTCGTCCGTGGCCTCGGGCCCCAGACCCTGCGCCCCACGTCCCCGGGACCCAGGCGTTCCTCGTCCCCTACTCGG
GGACGAGCCTCCCCGGCGCCGGGTGGGCGGTGCATCCTTTCTCCCACCCGTAACGGGAGCGGTGCCTGGCGCGC
TCTGGCGCAGACCCTGCTGGGAATGTAGCTCGCGCAGTTTTCTTCGTACTATTAATTTATTTCTTTTTTTTGT
TTGGTTTTTTTTTTTTTAAATGACTGTAGCAGGCAGTAACGTGCGAAAGAAAGACGCTCCAGCGTCTTCCTAGGCC
AGTTTCTTGTTGCTGTGCTGCACGGGACCCAGCTCCTTTTGCTGGGCCACGTGTTGCTCCTCCGCTTGGGCGGCC
CTGAATTCTGGGCGCTGGTGATCGCTGAGTGAATCGCAGCTGCTTCCCTGTCCTTGAGGGCGTCTTTGGGCACT
CAGGCGACTCTTTAGAAATGAGTTTTGCTTTAATAATTAATATTAACGTTATAAATCCAAAACCTAGTTATACTT
AAGTAGCGTATCCCTGGTATGTTTTAAAGAGTCATTGGAAGGGGATTTTTAAAAATAATGTATAGCTATAAACT
GCATTTATACATTTAATTGTTATTTTGTAAAGCGATTGAGTTACTTGACAAAATCCAAGTACATAGTTCACTCAC
AAATCTAATATGTCAAACCTAAATGTGGTTGGTAAATCTTACTCTCATAATTTCAATATGGTTTACAGATGTGGT
TGAATTCGTACACATGTCTACTTACGAGTCAGAATCGTTATTCCATTTAATATTTTAAATGGAATTGCCAAG
TTAATCCATACATTAGCATGTTAAATTATTTTAAACGTCGTGAATACATCAAAATAGACGATTCCAAAATGTAAT
GGAAAATACTAATGCTAATACTTCAATTTACTTCATTATTTCTGCCCTTAATCCTGAATCTTCTGGAGTTACAG
GTGCTTATCCACTAAACCAGGGGTTTTCAAGCAAGAAGTCAGAATGCATTAATGGACAGCATTTAAAAAATAGG
ATTGGGTGGGCTATAATCCAGCACTTTAGGAGGCCGAGGCAGGCGGATCACTTAAGATCAGGAGTTCGAGACCAG
CCTGGCCAACATGGTGAAACCCGCTCTCTACCAAAAAATAAAAAAATTAGCTGGACGTGGTGGAGCATGTCTGTA
ATCCCAGCTACTCGGGAGGCTGAGGAAGGAGAATCGCTTGAACCCGGGAGGCAGAGGCTGCACTCTAGCCTGGGC
AACAGAGCAAGGCTCTGTC

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FIGURE 5659

MSYGQOSWVKSGREVRVGRGVHPRQRPLPSRLPASSVASGPRPCAPRPRDPGVFPYSGTSLPGAGWAVHPFLPP
VTGAVPGALWRRPCWECSSRSFLRTINLFLFFVFGFFFLNDCSRQ

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FIGURE 5660

CGAACCCGGGAGCTGGCGCCATGGTGCTGTTGCACGTGCTGTTTGAGCACGCGGTCTGGCTACGCGCTGCTGGCGC
TGAAGGAAGTGGAGGAGATCAGTCTGCTGCAGCCGAGGTGGAGGAGTCTGTGCTCAACCTGGGCAAATTCCACA
GCATCGTTCGTCTGGTGGCCTTTTGTCCCTTTGCCTCATCCCAGGTTGCCTTGGAATAAGTCCAAACGCCGTGTCTG
AAGGGGTTGTTTCATGAGGACCTCCGCCTGCTCTTGAGAGACCCACCTGCCGTCCAAAAAGAAGAAAGTACTCTTGG
GAGTTGGGGATCCCAAGATTGGTGCCGCAATACAGGAGGAGTTAGGGTACAACCTGCCAGACTGGAGGAGTCATAG
CTGAGATCCTGCGAGGAGTTCGTCTGCACTTCCACAATCTGGTGAAGGGTCTGACCGATCTGTCTAGCTTGTAAG
CACAGCTGGGGCTGGGACACAGCTATTCCCGTGCCAAAGTTAAGTTTAATGTGAACCGGGTGGACAATATGATCA
TCCAGTCCATTAGCCTCCTGGACCAGCTGGATAAGGACATCAATACCTTCTCTATGCGTGTCTAGGGAGTGGTACG
GGTATCACTTTCGGGAGCTGGTGAAGATCATCAACGACAATGCCACATACTGCCGTCTTGCCAGTTTATTGGAA
ACCGAAGGGAACTGAATGAGGACAAGCTGGAGAAGCTGGAGGAGCTGACAATGGATGGGGCCAAGGCTAAGGCTA
TTCTGGATGCCCTCACGGTCTCCATGGGCATGGACATATCTGCCATTGACTTGATAAACATCGAGAGCTTCTCCA
GTCGTGTGGTGTCTTTAICTGAATACCGCCAGAGCCTACACACTTACCTGCGCTCCAAGATGAGCCAAGTAGCCC
CCAGCCTGTCAGCCCTAATTGGGGAAGCGGTAGGTGCACGTCTCATCGCACATGCTGGCAGCCTCACCAACCTGG
CCAAGTATCCAGCATCCACAGTGCAGATCCTTGGGGCTGAAAAGGCCCTGTTTCAGAGCCCTGAAGACAAGGGGTA
ACACTCCAAAAATATGGACTCATTTTCCACTCCACCTTCATTGGCCGAGCAGCTGCCAAGAACAAGGCCGCATCT
CCCGATACCTGGCAAACAAATGCAGTATTGCCTCACGAATCGATTGCTTCTCTGAGGTGCCCACGAGTGTATTCTG
GGGAGAAGCTTCGAGAACAAGTTGAAGAGCGACTGTCTTCTATGAGACTGGAGAGATACCACGAAAGAATCTGG
ATGTCATGAAGGAAGCAATGGTTCAGGCAGAGGAAGCGGCTGCTGAGATTACTAGGAAGCTGGAGAAACAGGAGA
AGAAACGCTTAAAGAAGGAAAAGAAACGGCTGGCTGCACTTGCCCTCGCGTCTTCAGAAAACAGCAGTAGTACTC
CAGAGGAGTGTGAGGAGATGAGTGAAAAACCCAAAAAGAAGAAAAAGCAAAAGCCCCAGGAGGTTCTCAGGAGA
ATGGAATGGAAGACCCATCTATCTCTTTCTCCAAACCCAAAGAAAAAGAAATCTTTTTTCCAGGAGGAGTTGATGA
GTAGCGATCTTGAAGAGACCGCTGGCAGCACCAAGTATTCCCAAGAGGAAGAAGTCTACACCCAAGGAGGAAACAG
TTAATGACCCTGAGGAGGCAGGCCACAGAAGTGGCTCCAAGAAAAAGAGGAAATCTCCAAAGAGGAGCCGGTCA
GCAGTGGGCCTGAAGAGGCGGTTGGCAAGAGCAGCTCCAAGAAAGAAAAAGTTCCATAAAGCATCCCAGGAAG
ATTAGAATGCAATGGACATTCTCTGGGAGGTGGGGCATAACCATAGCCCAAGGTGACATTTCCACCCTGTGCCG
TGTTCCCCAATAAAAAACAATTACAAG

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FIGURE 5661

TGATACATCGTTGCTCATTGTCAGAACATAACAGTTGCACATTGCAAGAGTCAACTTGCTTCGGGTCTTTTCAT
GCTCATGGCGGTATTGAGCGGAGTCCGCTGGCTGACCCGAGCGCTGGTCTCCGCCGGGAACCCCTGGGGCATGGAG
AGGTCTGAGTACCTCGGCCGCGGCGCACGCTGCATCGCGGAGCCAGGCCGAGGACGTGAGGGTGGAGGGCTCCTT
TCCCGTGACCATGCTTCGGGAGACGGTGTGGGGCCTGAGCTGATGCACGCCGTCAAGGAGGTGTTCAAGGCTGC
CGCTGTCCCAGTGGAGTTCAGGAGCACCACCTGAGTGAGGTGCAGAATATGGCATCTGAGGAGAAGCTGGAGCA
GGTGCTGAGTTCCATGAAGGAGAACAAAGTGGCCATCATTGGAAGATTTCATACCCCGATGGAGTATAAGGGGGA
GCTAGCCTCCTATGATATGCGGCTGAGGCGTAAGTTGGACTTATTTGCCAACGTAGTCCATGTGAAGTCACTTCC
TGGGTATATGACTCGGCACAACAATCTAGACCTGGTGATCATTGAGAGCAGACAGAAGGGGAGTACAGCTCTCT
GGAACATGAGAGTGCAAGGGGTGTGATTGAGTGTTTGAAGATTGTACACGAGCCAAGTCTCAGCGGATTGCAAA
GTTTCGCCTTTGACTATGCCACCAAGAAGGGGCGGGGCAAGGTCAGTGTGCCACAAGGCCAACATCATGAAACT
TGGGGATGGGTGTTCTTGCAGTGCTGTGAGGAAGTTGCTGAACTGTACCCCAAAATCAAATTTGAGACAATGAT
CATAGACAATGCTGCATGCAGCTGGTGCAGAAATCCTTACCAGTTTGATGTGCTTGTGATGCCCAATCTCTATGG
GAACATTATTGACAATCTGGCTGCTGGCCTGGTTGGGGGAGCTGGTGTGGTCCCTGGTGAGAGCTATAGTGCAGA
ATACGCAGTCTTTGAGACGGGTGCCCGGCACCCATTTGCCAGGCAGTGGGCAGGAATATAGCCAATCCCACGGC
CATGCTGCTGTGCGCTTCCAACATGCTGCGGCATCTTAATCTTGAGTATCACTCCAGCATGATCGCAGATGCGGT
GAAGAAGGTGATCAAAGTTGGCAAGGTGCGGACTCGAGACATGGGCGGCTACAGCACCACAACCGACTTCATCAA
GTCTGTTCATCGGTACCTGCAGACTAAAGGGAGCTAGAGCCCTTTATTTCTTCCAACCTTGCAAGGACCACACTC
CCCATACCTTTCAGTGCAGTGTACCAGGGAAGAGACCTTGTGCCTCTAAGCAGTGGACCATGGTCAACCCCTTGCT
GGGTAGAGCCTAGGTTGTCTTGGGCCGGCTTCCTTAGGGGACAGACTGTTGGGTGGTGTGATGGGGATTGTTAGGA
TGGAGCCCAGGCCACATGGATGATGATGATTCTCCCCACAGGTTTGAACCTCTGACATGGGTGGCTATGCTACT
TGCCATGACTTCACTGAGGCTGTCATTGCTGCCTTGCCCCACCCATAGGCCCTGTCCATACCCATGTAAGGTGTT
CAATAAAGAACATGAACCAAAA

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FIGURE 5662

MAVLSGVRWLTRALVSAGNPGAWRGLSTSAAAAHAASRSQAEDVRVEGSFPVTMLPGDGVGPELMHAVKEVFKAAA
VPVEFQEHHLSEVQNMASEEKLEQVLSSMKENKVAIIIGKIHTPMEYKGELASYDMRLRRKLDLFANVVHVKS L PG
YMTRHNNLDLVIIREQTEGEYSSLEHESARGVIECLKIVTRAKSQRIAKFAFDYATKKGRGKVTAVHKANIMKLG
DGLFLQCCEEVAELYPKIKFETMIIDNCCMLVQNPYQFDVLVMPNLYGNIIDNLAAGLVGGAGVVPGESYSAEY
AVFETGARHPFAQAVGRNIANPTAMLLSASNMLRHLNLEYHSSMIADAVKKVIKVGKVRTRDMGGYSTTTDFIKS
VIGHLQTKGS

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FIGURE 5663

ATGTGGGGGCTCCTGCTCGCCCTGGCCGCCTTCGCGCCGGCCGTCGGCCCGGCTCTGGGGGCGCCAGGAACTCG
GTGCTGGGCCTCGCGCAGCCCGGGACCACCAAGGTCCCAGGCTCGACCCCGGCCCTGCATAGCAGCCCGGCACAG
CCGCCGGCGGAGACAGCTAACGGGACCTCAGAACAGCATGTCCGGATTTCGAGTCATCAAGAAGAAAAAGGTCATT
ATGAAGAAGCGGAAGAAGCTAACTCTAACTCGCCCCACCCCACTGGTGACTGCCGGGCCCCCTTGTGACCCCCACT
CCAGCAGGGACCCCTCGACCCCGCTGAGAAACAAGAAACAGGCTGTCTCTCTTGGGTCTGGAGTCCCTGCGAGTT
TCAGATAGCCGGCTTGAGGCATCCAGCAGCCAGTCCTTTGGTCTTGGACCACACCGAGGACGGCTCAACATTTCAG
TCAGGCCTGGAGGACGGCGATCTATATGATGGAGCCTGGTGTGCTGAGGAGCAGGACGCCGATCCATGGTTTCAG
GTGGACGCTGGGCACCCCAACCCGCTTCTCGGGTGTATACACAGGGCAGGAACTCTGTCTGGAGGTATGACTGG
GTCACATCATACAAGGTCCAGTTCAGCAATGACAGTCGGACCTGGTGGGGAGTAGGAACCACAGCAGTGGGATG
GACGCAGTATTTCTTGCCAATTTCAGACCCAGAAACTCCAGTGCTGAACCTCCTGCCGGAGCCCCAGGTGGCCCCG
TTCATTTCGCTGCTGCCCGAGACCTGGCTCCAGGGAGGCGCGCCTTGCCCTCCGGGCAGAGATCCTGGCCTGCCCA
GTCTCAGACCCCAATGACCTATTTCCTTGAGGCCCCCTGCGTCGGGATCCTCTGACCCTCTAGACTTTTCAGCATCAC
AATTACAAGGCCATGAGGAAGCTGATGAAGCAGGTACAAGAGCAATGCCCAACATCACCCGCATCTACAGCATT
GGGAAGAGCTACCAGGGCCTGAAGCTGTATGTGATGGAAATGTCGGACAAGCCTGGGGAGCATGAGCTGGGGGAG
CCTGAGGTGCGCTACGTGGCTGGCATGCATGGGAACGAGGCCCTGGGGCGGGAGTTGCTTCTGCTCCTGATGCAG
TTCTGTGCCATGAGTTCTGCGAGGGAACCCACGGGTGACCCGGCTGCTCTCTGAGATGCGCATTACCTGCTG
CCCTCCATGAACCCTGATGGCTATGAGATCGCCTACCACCGGGGTTTCAGAGCTGGTGGGCTGGGCCGAGGGCCGC
TGGAACAACCAGAGCATCGATCTTAACCATAATTTTGCTGACCTCAACACACCACTGTGGGAAGCACAGGACGAT
GGGAAGGTGCCCCACATCGTCCCAACCATCACCTGCCATTGCCCACTTACTACACCCTGCCCAATGCCACCGTG
GCTCCTGAAACGCGGGCAGTAATCAAGTGGATGAAGCGGATCCCCCTTTGTGCTAAGTGCCAACCTCCACGGGGGT
GAGCTCGTGGTGTCTTACCATTTCGACATGACTCGCACCCCGTGGGCTGCCC GCGAGCTCACGCCCACACCAGAT
GATGCTGTGTTTTGCTGGCTCAGCACTGTCTATGCTGGCAGTAATCTGGCCATGCAGGACACCAGCCGCCGACCC
TGCCACAGCCAGGACTTCTCCGTGCACGGCAACATCATCAACGGGGCTGACTGGCACACGGTCCCCGGGAGCATG
AATGACTTCAGCTACCTACACACCAACTGCTTTGAGGTCACTGTGGAGCTGTCTGTGACAAGTTCCCTCACGAG
AATGAATTGCCCCAGGAGTGGGAGAACAACAAGACGCCCTCCTCACCTACCTGGAGCAGGTGCGCATGGGCATT
GCAGGAGTGGTGAGGGACAAGGACACGGAGCTTGGGATTGCTGACGCTGTCATTGCCGTGGATGGGATTAACCAT
GACGTGACCACGGCGTGGGGCGGGGATTATTGGCGTCTGCTGACCCAGGGGACTACATGGTGAAGTGGCAGTGCC
GAGGGCTACCATTTCAGTGACACGGAAGTGTGGGTACCTTTGAAGAGGGCCCCCTTCCCCTGCAATTTTCGTGCTC
ACCAAGACTCCCAAACAGAGGCTGCGCGAGCTGCTGGCAGCTGGGGCCAAGGTGCCCCCGGACCTTCGCAGGCGC
CTGGAGCGGCTAAGGGGACAGAAGGAT**TGA**

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FIGURE 5664

MWGLLLALAAFAVGPALGAPRNSVLGLAQPGTTKVPGSTPALHSSPAQPPAETANGTSEQHVRIKVKKKVI
MKKRKKLTLTRPTPLVTAGPLVTPTPAGTLDPAEKQETGCPPLGLESRLVSDSRLEASSSQSFGLGPHRGRLNIQ
SGLEDGDLVDGAWCAEEQDADPWFQVDAGHPTRFSGVITQGRNSVWRYDQVTSYKVQFSNDSRTWWGSRNHSSGM
DAVFPANSDPETPVLNLLPEPQVARFIRLLPQTLWQGGAPCLRAEILACPVSDPNDLFLEAPASGSSDPLDFQHH
NYKAMRKLKQVQEQCPNITRIYSIGKSYQGLKLYVMEMSDKPGHEHELGEPEVRYVAGMHGNEALGRELLLLLMQ
FLCHEFLRGNPRVTRLLSEMRIHLLPSMNPDGYEIAHYRGSELVGWAEGRWNNQSIDLNHNFADLNTPLWEAQDD
GKVPHIVPNHHLPLPTYTLPNATVAPETRAVIKWMKRIPFVLSANLHGGELVVSYPFDMTRTPWAARELTPTPD
DAVFRWLSTVYAGSNLAMQDTSRRPCHSQDFSVHGNIINGADWHTVPGSMNDFSYLHTNCFEVTVELSCDKFPHE
NELPQEWENNKDALLTYLEQVRMGIAGVVRDKDELGIADAVIAVDGINHDVTTAWGGDYWRLLTPGDYMTASA
EGYHSVTRNCRVTFEEGPFFPCNFVLTKTPKQRLRELLAAGAKVPPDLRRRLERLRGQKD

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FIGURE 5665

GCTGTGAGGCTCGGAGTCGCCGAGGAGCCAGTATCTGTGTGCGCGCCGCCGCGGCGTCCCCGGTTTGGTGCTG
CGGCGCCACCTTCGGGAGGATCAGTATCTGGCACCAATTCTGACCCAGTCATTTGTGATCCCTGGCTCTTGTGA
TATGCTGAAGATTTCCAGGCAGTTTTTGTGGAACACCTCCCCGTCCAGCTCTAATCAAGCACCATATAAACAAGA
AATTGCCTGGTCAAATCTGTGAGGACTGTATTCTGACTGCCAAAGAGATCAATACTGACACCAGAAATGGCAGCTA
CTCTCAAGTCATTAAAACTTGTAAGATACCGAGCATTTCAGTCCTTCTGCCTTTGGTGACGTCCGAAGTGTGT
CATACTGGAATGTGAGCAGCACACAGCATGGGGGACAGGACCCTCCAGAACACATTAGCCTCTGCCATTCTGCCA
AAAAAGTTAAGAACATATGTAGCACCTTCTCTTCTCGGAGAATCCTGACAACCAGCAGTGCCACCCAGGTTTGG
AATTCAGCAAGACTTCTTCCTCTAAGGCCAGTACATTGCAGCTGGGCTCACCCAGGGCCACAGGAGTTGATGAAG
AGGACGTAGAAGTGTTTGATTCTTTGAAAACATGCGAGTTTTCTACAGCTAAGACCAGAATACCGTGTTTACA
GCTATAATGCATCTGAGACTTCTCAGCTCCTGTCTGTTTTCAGAAGGTGAATAATTTGCACAAAGTCAGAGTTA
ATCAAAATAATCTCCAGGCTCAAGTCATTGTTGATTATTTGTGTAAGCTGAGCTCTTGCCTGCAGAGCAGCATC
CTGTCTTGCTGGGACGTACCAGCTTTGCTCTGCTCTGCCAGCTGAGTGTGAAGAAGATACAGCTCTTTGATACCC
AAGATCTGATCAATGTTTTGAAAGCTTTTGTCAATTTTAGGAATCCCTCACTCCCATTCAATGCTAGATGTGTATG
AGACCAAGTGTTGCCATCAGGTATGGGAGATGAATATGGATCAGCTCCTTTTGGTGGCTGATCTCTGGAGGTACT
TAGGCCGCAAAGTACCTAGGTTTTTAAACATTTTTCTAGTTATCTTAATTTGCACTGGAAGGATCTATCCTTGT
CTCAGCTAGTTCACCTAATTTATGTTATAGGTGAAAATCGTCAGGTATCCAGGACCTAATGCAAAAATTGGAAT
CATTGATCCTTAAATATATAGATTTGATCAATTTGGAGGAGGTTGGTACCATCTGTTTGGGGTTCTTTAAATCAA
GTACTAATCTCTCTGAATTTGTCTATGCGGAAAATTGGAGACTTGGCTTGTGCTAACATTTCAGCATCTGAGTAGTC
GCTCCTTAGTGAATATTGTTAAATGTTCCGTTTCACTCACGTGGATCACATCAATTTTCATGAAGCAGATTGGAG
AGATAGCTCCTCAGCGAATTCCTTCCCTGGGAGTTCAAGGTGTATGCACCTGACTCTTTACTGCTCGGCCCTTAC
GCTTCCTGAATGAAGGAGTAATGAATGCAGTGGCTGCGTCTTTGCCTCCTAGAGTGGCACACTGTCTGAAGTAAAG
ATGTTGCCAAGATTCTGTGGTCATTGGAACCTCTGAATTATAAGCCACCCAATGCAGAAGAATTTTACTCCAGCC
TGATAAGTGAGATTCACAGAAAGATGCCTGAATTCACCAGTACCCAGAACACCTGCCACCTGCCTGCTGGGCC
TGGCATTTTTGGAGTACTTTCCAGTAGAGTTAATTGATTTGCTCTCAGTCCAGGGTTTGTGAGGTTAGCTCAGG
AGAGAACTAAGTTTGACCTCCTTAAGGAATATATACCCTCGATGGTACAGTTGGCATTGAGTGTCCAGATTACA
GAGGCAATCGTCTTAGTACTCACCTTCAGCAAGAGGGGTCTGAATTGCTGTGGTATTTAGCAGAGAAGGATATGA
ATTCAAAGCCTGAATTCCTAGAACTGTCTTTTTTACTGGAGACCATGCTGGGGGGGCCCCAGTACGTCAAGCACC
ATATGATTTTGCCCTCATACCCGATCTTCTGACTTAGAAGTCCAGCTTGATGTTAACCTGAAGCCATTACCATTTA
ATAGAGAAGCCACGCCGGCTGAAAATGTAGCCAAATTAAGGCTTGAGCATGTGGGAGTCAGCCTTACAGATGATT
TGATGAATAAGTTACTAAAAGGGAAAGCAAGAGGACATTTCCAGGGCAAACCTGAGTCAGAGCCTGGGCAGCAGC
CCATGGAGTTGGAGAATAAGGCAGCTGTACCTCTGGGGGGCTTCCTTTGCAATGTAGCAGATAAATCAGGGGCCA
TGGAGATGGCTGGCCTGTGCCCCGCAGCCTGCATGCAGACCCCAAGAATGAAGCTGGCTGTTTCAGTTCAAAACA
GGAACCAAGTATTGCTATGGCTCCAGGGATCTCCTTGACTGCACAATATGAAGAGGCGGCAGCTGGCTCGGCTTG
GCTACCGTGTGGTAGAGTTATCCTACTGGGAATGGCTCCCACTACTGAAACGAACCTCGCTTAGAAAAGTTGGCGT
TTCTTCATGAGAAAAGTATTCACCTCTGCTCTCTGAAGGGCATTTAGGGGCATTTCTATGGCAAAGCTATAGGTGT
ATACTGTACCAGGTGTTGCAAAATGATTATAAAAGCCAGAATGTAAGTTTGGCGATAAAATAGTGTGTTGAGGAG
ACTTAATTGTATCCAAGGCAGGTTAGAGCTAGTGATGTTACTGTGAATTGTAATGTAGTTGGATTGTACAAATT
ACTGCAAATGTATACATGTTACTCTTAGTAAATAATAAACATCTTAATATGTCCTACGGTC

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FIGURE 5666

MAATLKSLKLVRYRAFCSPSAFGAVRSVSYWNVSSTQHGGQDPPEHISLCHSAKKVKNICSTFSSRRILTTSSAH
PGLEFSKTSSSKASTLQLGSPRATGVDEEDVEVFDSFENMRVFLQLRPEYRVHSYNASETSQLLSVSEGELILHK
VRVNQNNLQAQVIVDYLCKLSSLPAEQHPVLLGSTSFALLCQLSVKKIQLEFDTQDLINVLKAFVILGIPHSHSML
DVYETKCCHQVWEMNMDQLLLVADLWRYLGRKVPFLNIFSSYLNHLHWKDLSSLSQLVHLIYVIGENRQVSQDLMQ
KLESLILKYIDLINLEEVGTICLGFFKSSTNLSEFVMRKIGDLACANIQHLSSRSLVNIVKMFRTHTVDHINFMK
QIGEIAQORIPSLGVQGVMHILTLYCSALRFLNEGVMNAVAASLPPRVAHCRSKDVAKILWSFGTLNYKPPNAEEF
YSSLISEIHRKMPEFNQYPEHLPTCLLGLAFLEYFPVELIDFALSPGFVRLAQERTKFDLLKELYTLDGTVGIEC
PDYRGNRLSTHLQQEGSELLWYLAEKDMNSKPEFLETVFLLETMLGGPQYVKHHMILPHTRSSDLEVQLDVNLKP
LPFNREATPAENVAKLRLEHVGVS LTDDL MNKLLKGKARGHFQGKTESEPGQQPMELENKAAVPLGGFLCNVADK
SGAMEMAGLCPAACMQTPRMKLAVQFTNRNQYCYGSRDLLGLHNMKRRQLARLGYRVVELSYWEWLPLLKRTRLE
KLAFLHEKVFTSAL

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FIGURE 5667

CCTGGCCGGAAACTGAGCCGTTCACTTCCGCCACCAGCCGGAAGTTTTCTGTCACTGGACGCCAAGGAGTTTTCG
GTGGCTCAGCTGGGTAACCGGGGATCACCATGGCGGCCTCATTGGTGGGGAAGAAGATCGTGTTTGTAACGGGGA
ACGCCAAGAAGCTGGAGGAGGTCGTTTCAAGATTCTAGGAGATAAGTTTCCATGCACTTTGGTGGCACAGAAAATTG
ACCTGCCGGAGTACCAGGGGGAGCCGGATGAGATTTCCATACAGAAATGTCAGGAGGCAGTTCCGCCAGGTACAGG
GGCCCGTGCTGGTTGAGGACACTTGTCTGTGCTTCAATGCCCTTGGAGGGCTCCCCGGCCCCCTACATAAAGTGGT
TTCTGGAGAAGTTAAAGCCTGAAGGTCTCCACCAGCTCCTGGCCGGGTTCGAGGACAAGTCAGCCTATGCGCTCT
GCACGTTTGCACTCAGCACCGGGGACCCAAGCCAGCCCGTGCGCTGTTTCAGGGGCCGGACCTCGGGCCGGATCG
TGGCACCCAGAGGCTGCCAGGACTTTGGCTGGGACCCCTGCTTTTCAGCCTGATGGATATGAGCAGACGTACGCAG
AGATGCCTAAGGCGGAGAGAAGACGCTGTCTCCCATCGCTTCCGGGCCCTGCTGGAGCTGCAGGAGTACTTTGGCA
GTTTGGCAGCTTGACTTCTGCAGCTGGAGGAGGCCCTCAGGCCGGGGATCTGGGGAGGGCTAGCCCAAACCTC
CCGCATCGGGCAGGCACCCCCTGAAGTACTTCCCTCAGGGTTTCCCCTTTGTGAGGGTGTGAGTAGCCTCACCG
GCCTGTCTGAGGAGCAGCTGGCTCTGCTCTGAGAACTCTGGCAAGTGGACGCCATTCTCTTGCCCTTAGGATT
CACTGCTCTCTCCTACAGCCGCCAGGCCTGGGGTCTGAAAGGACCTTGGGTGGTAAAGCTGTACTTGGTGGGAG
TGAGGGCGTGGGGAGGAACCATGCAAATCGCCTTCCATGGTTTTTAAATGCAGTAAATAACATTTCTGGATGAGA
CTTGTTTCCAAAATAAACCAGCTATATCTGTTTTG

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FIGURE 5668

GTGCTCGGCGTTGAGCTCCTGCAGCCGCCGCGCTGCAGTGGTTCGTCCCTGCCCTCCCCGGCCCCGGGGTGCACC
CCGCAAGGCTCCCGCTGGTGTCCCTGGAGCATGGGAGGCTGCTGAGCGTGAGTGGCGGTGTCTGGCAGGAGCTGC
GTGGCAGGGAGGGCGTCCATGGCTGCAGCCAACAAGGGCAACAAGCCCAGAGTCCGGGGTATCCGCTTTGCGGCA
GGCCACGATGCAGAAGGATCCACAGCCACGTCCACTTTGATGAGAAGCTGCATGACTCGGTGGTCATGGTCACC
CAGGAGAGTGACAGCAGCTTTCTGGTCAAGGTTGGCTTCCTGAAGATCCTGCACAGGTATGAGATTACCTTCACT
CTGCCCCCAGTGCACAGGCTGAGCAAGGATGTCCGCGAGGCACCTGTCCCCAGCCTGCACCTCAAGCTCCTCAGC
GTGGTGCCCGTCCCTGAAGGTTATAGTGTCAAGTGTGAGTACTCGGCGCACAAAGAGGGCGTCCTCAAAGAGGAG
ATACTGCTAGCCTGCGAAGGTGGCACTGGCACCTGTGTGCGCGTGACGGTGCAGGCCCGCGTCATGGACCGGCAC
CACGGCACGCCCATGCTGCTGGATGGTGTCAAGTGTGTGGGCGCCGAGCTGGAATACGACTCAGAGCACAGCGAC
TGGCACGGCTTTGACTTGAGGCCCCGAGGCCCGCCTGCCCCGGGCCCCCTCAGCCTTAAACCCCGCCTTGTCCCCC
GACATGCTGCGTGATGGTGTGGCTTCCTCGCCCCCTCTCTGGGGTGGGTGTGGGGGTGGAGTGGCCTTGCCACGC
CTCTACCTCTGCCTTCATTTGTGCTGCCACCCTGCCCTCCCTCGTCCCTCCTCTCCCACTTCTCTCTCTGTG
TGCCTCAGTCTCCTGCCGGAAGAAATGGGTTGATCCCGAAAGGAGGCTGTCTGAGGAAGGGAGAGGGAGGGCCTG
GGGTGGGTCCCCCACTCCCCACCCCAAGCCACAGGGACTCCCACAGGGTCTGGGAGAGGACGGAGCTGGCTCTG
TGGCGTCGTGGCCCCATTACTGCTGCCTTGCTTCAGCCACCTCTCCTGCCCCCTCCCTAGTCCCCACTGCTGTCCA
CCATGAGTAGGAGGGAGGTGCAGTCCCCAGCCCCACCCCTCAGGTCTGTGTTACTTGGTTTTTAAGCGACTGGT
TGGGATAGAACCCTAAAGAAATAAACTTCCAGTGGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 5669

MAAANKGNKPRVRGIRFAAGHDAEGSHSHVHFDEKLHDSVVMVTQESDSSFLVKVGFLKILHRYEITFTLPPVHR
LSKDVREAPVPSLHLKLLSVVPVPEGYSVKCEYSAHKEGVLKEEILLACEGGTGTCVRVTVQARVMDRHHGTPML
LDGVKCVGAEELEYDSEHSDWHGFD

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FIGURE 5670

ACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGCAGAGCCACATCCTCCACTTGG
AACACGATCTGGTTCATGTGACCAGGAAGAACCACGCCAGGATTGGAGGTTTCCAAGAGGGCCCCCACC GTGGAA
GTAACCAAGGGCGCTTCCTTG TGGGCAGCTGCAGGCCCCATGCCTCTCCTCCCTCTCTGGCAGGGCCCCATCCTG
GGCAGAGGGGCCTGGGGCTGGGGCCAGAGTCCAGCCGTCCAGCTGCTCCTTTCCCAGTTTGATTTCATAAATCT
GTCCACTCCCCTTTTGTGGGGGTGAACGTTTTTAACAGCC

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FIGURE 5671

CGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGACCTGCGCAAGGGCGAG
ATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGCGCCATCCTGGCGTCCG
GAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGACAAGCTCGAGGGCTTG
CTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCCGGCTGCCGGTCAAGGGCATCATCCTCAAGGAGAAGGGCGCTG
CGCATAGCCGAGGAGCTGGGCATGGACGACTTCACCGCCTCCAACGGCTGGCTGGACCGCTTCCGCCGGCGCCAC
GGCGTGGTGTCTTGCAGCGGCGTGGCCCGCGCCCGCGCGGAAACGCTGCCCCCGCACCCCGGGCGCGCTGCC
AGTCCGGCCGCGGTGCCCTCGGAGGGCAGTGGCGGGAGCACTACTGGTTGGCGCGCTCGGGAGGAGCAGCCGCCG
TCGGTGGCCGAGGGCTACGCCCTCGCAGGACGTGTTACGCGCCACCGAGACCAGTCTATGGTACGACTTCCTGCCC
GACCAGGCCGCGGGGCTGTGCGGAGGCGACGGACGGCCGCGTCAAGCCACCCAGCGCCTGAGCGTCTCTGCTATGC
GCCAATGCCGACGGCAGCGAGAAGCTGCCCCCGCTGGTGGCCGGCAAGTCGGCCAAGCCCCGCGCAGGCCAAGCC
GGCCTGCCCTGCGACTACACGCCAACTCCAAGGGTGGTGTACACCACCCAGGCCCTGGCCAAGTACTTGAAGGCC
TTGGACACCCGAATGGCTGCAGAGTCTCGCCGGGTCTCTGCTGTTGGCCGGCCGCTTGGCTGCCAGTCTTTGGAC
ACCTCGGGCCTGCGGCATGTGCAGCTGGCCTTCTTCCCTCCCGGCACCGTGCATCCGCTGGAGAGGGGAGTGGTC
CAGCAGGTGAAGGGCCACTACCGCCAGGCCATGCTGCTCAAGGCCATGGCCGCGCTAGAGGGCCAGGATCCCTCA
GGCCTGCAGCTGGGTCTCACGGAGGCCCTGCACCTTTGTGGCTGCCGCCCTGGCAGGCAGTGGAGCCTTCGGACATA
GCCGCCTGCTTTTCGTGAGGCTGGCTTTGGGGGTGGCCCTAATGCCACCATCACCCTTCCCTCAAGAGTGAGGGA
GAGGAAGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAAGAGGGTGAAGGAGAGGAAGAGGAGGAGGAAGGGGAG
GAGGAGGAGGAGGAAGGGGGGGAAGGAGAGGAATTGGGGGAGGAAGAGGAGGTGGAGGAGGAGGTGATGTTGAT
AGTGATGAAGAAGAGGAGGAAGATGAGGAGAGCTCCTCGGAGGGCTTGGAGGCTGAGGACTGGGCCAGGGAGTA
GTGGAGGCCGGTGGCAGCTTCGGGGCTTATGGTGCCAGGAGGAAGCCAGTGCCCTACTCTGCATTTCTTGAA
GGTGGGGAGGACTCTGATTGAGACAGTGAGGAAGAGGACGATGAGGAAGAGGATGATGAAGATGAAGACGACGAT
GATGATGAGGAGGATGGTGATGAGGTGCCTGTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAG
AGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGACAGCCACATCCTCCACTTGAACACGATCTGGTTTCAT
GTGACCAGGAAGAACCACGCCAGGCAGGCGGGAGTTCGAGGTCTTGGACATCAAAGCTGAGTCACTGGACCTAGC
TGTGCCCCCAACCTAGATTGGCAGCACCAACCCAGGGCAGAGGACTCTCTGGGCACCCGCTGTGCATGGAGCCAG
AGTGCAGAGCCCCAGATCCTTTAGTAATGCTTCCCTGGTCTGCAACAGGCCCGGTACCTCGGCCGGGCCCGG
GGCTGAGGTCAGCCTCACTGCCTGCTTATTGCCTCTTTCTCAGAATCCTCTTTCTCCCCATTTGGCCCTGGGCT
CAGGGGACCAGGTGGGGCGGGTGGGGAGCTGTCCGGTGCTACCACACCGTGCCCTCAGTGGACTAACCACAGCAG
CAGCCAGGGATGGGCCCTGGAGGTTCCTGGCCGGAGAGTGCTCTCCCTCTGCCATCCACGTCAGGTCTTTGGT
GGGGGGACCCCAAAGCCATTCTGGGAAGGGCTCCAGAAGAAGGTCCAGCCTAGGCCCCCTGCAAGGCTGGCAGCC
CCCACCCCAACCCCAAGGCCGCTTGAGAAGCACAGTTTAACTCACTGCGGGCTCCTGAGCCTGCTTCTGCCTG
CTTTCCACCTCCCCAGTCCCTTTCTCTGGCCCTGTCCATGTGACTTTGGCCCTTGGTTTTCTTTCCAGATTGGAG
GTTTCCAAGAGGCCCCCAACCGTGGAAGTAACCAAGGGCGCTTCTTGTGGGCAGCTGCAGGCCCATGCCTCTC
CTCCCTCTCTGGCAGGGCCCCATCCTGGGCAGAGGGGCTGGGGCTGGGCCAGAGTCCAGCCGTCCAGCTGCTC
CTTTCCAGTTTGATTTCAATAAATCTGTCCACTCCCTTTTGTGGGGGTGAACGTTTTAACAGCC

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FIGURE 5672

MDDFTASNGWLD RFRRRHGVVSCSGVARARARNAAPRTPAAPASPAAVPSEGSGGSTTGWRAREEQPPSVAEGYA
SQDVFSATETSLWYDFLPDQAAGLCGGDGRPRQATQRLSVLLCANADGSEKLPPLVAGKSAKPRAGQAGLPCDYT
ANSKGGVTTQALAKYLKALDTRMAAESRRVLLLAGRLAAQSLDTSGLRHVQLAFFPPGTVHPLERGVVQQVKGHY
RQAMLLKAMAALEGQDP SGLQLGLTEALHFVAAAWQAVEPSDIAACFREAGFGGGPNATITTSLKSEGE EEEEEEE
EEEEEEEGEGEEEEEEEGEEEEEGGEGEELGEEEEVEEEGDVDSDEEEEEDEESSEGLEAEDW AQGVVEAGGSF
GAYGAQEEAQCP TLHFLEGGEDSDSDSEEDDEEEDDEDEDDDDDEEDGDEVVPVPSFGEAMAYFAMVKRYLTSFP
IDDRVQSHILHLEHDLVHVTRKNHARQAGVRGLGHQS

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FIGURE 5673

ATGGGCCCCAAGAGGCGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGAC
CTGCGCAAGGGCGAGATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGC
GCCATCCTGGCGTCGGAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGAC
AAGCTCGAGGGGCTTGCTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGGCCTGCCGGTCAAGGGCATCATCCTC
AAGGAGAAGGCGCTGCGCATAGCCGAGGAGCTGGGCATGGACGACTTCACCGCCTCCAACGGCTGGCTGGACCGC
GTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGAC
CGCGTGCAGAGCCACATCCTCCACTTGGAAACACGATCTGGTTTATGTGACCAGGAAGAACCACGCCAGGCAGGCG
GGAGTTCGAGGTCTTGGACATCAAAGCTGA

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FIGURE 5674

AGAGGCTTCCCTGGCTGGTGCCTGAGCCCGGCGTCCCTCGCCCCCGCCCTCCCCGCATCCCTCTCCTCCCTCGC
GCCTGGCCCTGTGGCTCTTCTCCCTCCCTCCCTCCCTCCCCCCCCCCCCACCCCTCGCCCGCTGCCTCCCTCGGCCCCA
GCCAGCTGTGCCGGCGTTTGTGGCTGCCCTGCGCCCGGCCCTCCAGCCAGCCTTCTGCCGGCCCCCGCCGCGATG
GAGGTGCCCCAGCCGGAGCCCCGCGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGCGGTGGCGCCCCAGCGTCCG
GGCCACCTCCCGGGCCTCCTGCTGGGATCTCATGGCCTCCTGGGGTCCCCGGTGCGGGCGGCCGCTTCTCGCCG
GTCACCACCCTCACCCAGACCATGCACGACCTCGCCGGGCTCGGCAGCCGAGCCGCTGACGCACCTATCCCTG
TCTCGACGGGCATCCGAATCCTCCCTGTCGTCTGAATCCTCCGAATCTTCTGATGCAGGTCTCTGCATGGATTCC
CCCAGCCCTATGGACCCCCACATGGCGGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCAGCCGGATCATTGGA
AACGAGCAGTTTGCCATCAGACGCTTCCAGTCTATGCCGGTGAGGCTGCTGGGCCACAGCCCCGTGCTTCGGAAC
ATCACCAACTCCCAGGCGCCCCGACGGCCGGAGGAAGAGCGAGGCGGGCAGTGAGAGCTGCCAGCAGCTCTGGGGAA
GACAAGGAGAATGTGCGCTTCTGGAAGGCCGGGTGGGAGCTCTCGGGAAGAGGAGGGGGCATGCTGGGGTGGT
TCCCTGGCATGTGAGGACCCCTCCTCTCCCATCTTGGCTGCAGGATGGATTTGTCTTCAAGATGCCATGGAAGCCC
ACACATCCCAGCTCCACCCATGCTCTGGCAGAGTGGGCCAGCCGAGGGAAGCCTTTGCCAGAGACCCAGCTCG
GCCCCCGACCTGATGTGTCTCAGTCTGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTGGCCCTAGGTGCG
TTCTCTCTGACCCCTGCAGAGGGGGATACTGAGGAAGATGATGGATTTGTGGACATCTAGAGAGTGACTTAAAG
GATGATGATGCAGTTCCCCCAGGCATGGAGAGTCTATTAGTGCCCCACTGGTCAAGACCTTGGAAGGAAGAG
GAAAAGGACCTCGTCATGTACAGCAAGTGCCAGCGGCTCTTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGG
CCCATCCTCAAGAGGCTGGAGCGGCCCCAGGACAGGGACACGCCCGTGCAGAATAAGCGGAGGCGGAGCGTGACC
CCTCCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCGCGTCTCCGCTCAAAATCACTGTGTCACGATGAG
ATCGAGAACCTCCTGGACAGTGACCACCGAGAGCTGATTGGAGATTACTCTAAGGCCTTCTCTACAGACAGTA
GACGGAAAGCACCAAGACCTCAAGTACATCTCACCAGAAACGATGGTGGCCCTATTGACGGGCAAGTTCAGCAAC
ATCGTGGATAAGTTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGGCGGGCACATCAAGACTGCGGTG
AACTTGCCCCCTGGAACGCGACGCCGAGAGCTTCTACTGAAGAGCCCCATCGCGCCCTGTAGCCTGGACAAGAGA
GTCATCCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCCGCATGTGCCGTTTCATCAGGGAACGAGAC
CGTGCTGTCAACGACTACCCAGCCTCTACTACCCTGAGATGTATATCCTGAAAGGCGGCTACAAGGAGTTCTTC
CCTCAGCACCCGAACCTTCTGTGAACCCCAAGACTACCGGCCCATGAACCACGAGGCCTTCAAGGATGAGCTAAAG
ACCTTCCGCCTCAAGACTCGCAGCTGGGCTGGGGAGCGGAGCCGGCGGGAGCTCTGTAGCCGGCTGCAGGACCAG
TGAGGGGCTGCGCCAGTCTGCTACCTCCCTTGCCCTTTCGAGGCCTGAAGCCAGCTGCCCTATGGGCTGCGCG
GCTGAGGGCCTGCTGGAGGCCTCAGGTGCTGTCCATGGGAAAGATGGTGTGGGTGTCCTGCTGTCTGCCCCAGC
CCAGATTCCCCCTGTGTCATCCCATCAFTTTCCATATCCTGGTGCCCCCACCCCTGGAAGAGCCCAGTCTGTTGA
GTTAGTTAAGTTGGGTTAATACCAGCTTAAAGGCAGTATTTTGTGTCTCCAGGAGCTTCTTGTTCCTTGTAG
GGTTAACCCCTTCATCTTCTGTGTCCTGAAACGCTCCTTTGTGTGTGTGTGCTGAGCTGAGGCTGGGGGAGAGCCGTG
GTCCCTGAGGATGGGTGAGAGCTAAACTCCTTCCCTGGCCTGAGAGTCAGCTCTCTGCCCTGTGTACTTCCCGGC
CAGGGCTGCCCCCTAATCTCTGTAGGAACCGTGGTATGTCTGCCATGTTGCCCTTTCTCTTTTCCCTTTCTGT
CCCACCATACGAGCACCTCCAGCCTGAACAGAAGCTCTTACTCTTTCTATTTTCACTGTGTGCTTGGT
CTGTTTGACTTTACGCCATCTCAGGACACTTCCGTAGACTGTTTAGGTTCCCTGTCAAATATCAGTTACCCAC
TCGGTCCCAGTTTTTGTGCCCCAGAAAGGGATGTTATTATCCTTGGGGGCTCCCAGGGCAAGGGTTAAGGCCTGA
ATCATGAGCCTGCTGGAAGCCCAGCCCCCTACTGCTGTGAACCCTGGGGCCTGACTGCTCAGAACTTGCTGCTGTC
TTGTTGCGGATGGATGGAAGGTTGGATGGATGGGTGGATGGCCGTGGATGGCCGTGGATGCGCAGTGCCCTTGCAT
ACCCAAACCAGGTGGGAGCGTTTTTGTGAGCATGACAGCCTGCAGCAGGAATATATGTGTGCCTATTTGTGTGGA
CAAAAATATTTACACTTAGGGTTTGGAGCTATTCAAGAGGAAATGTACAGAAGCAGCTAAACCAAGGACTGAGC
ACCTCTGGATTCTGAATCTCAAGATGGGGCAGGGCTGTGCTTGAAGGCCCTGCTGAGTCATCTGTTAGGGCCT
TGGTTCAATAAAGCACTGAGCAAGTTGAG

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FIGURE 5675

GGGTCTGTCTCTTGCTTCAACAGTGTTTGGACGGAACAGATCCGGGGACGGTCTTCCAGCCTCCGACCGCCCTCC
AATTTCTCTCCACTTGCAACCTCCGGGACCATCTTCTCGGCTATCTCCTGCTTCTGGGACCTGCCAGCACCGTT
TTTGTGTTAGCTCCTTCTTGCGGACCAACCATGAGCTCCCAGATTGTCAAAAATTATTCACCGACGTGGAGGC
AGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTTCGACCG
CGATGATGCGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGACCGAGGAGAAGCGCGAGGGCTACGAGCG
TCTCCTGAAGATGCAAAACCAGCGTGCGCGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAGATGAGTG
GGGTAAAACCCAGATGCCATGAAAGCTGCCATGGCCCTGGAGAACCCCATCTCTGTGACTTCCTGGAGACTCA
CTTCTAGATGAGGAAGTGAAGCTCATCAAGAAGATGGGTGACCACCTGACGAACCTCCACAGGCTGGGAGGCCC
AGAGGCTGGGCTGGGCGAGTATCTCTCGAAAGGCTCACTCTCAAGCACGTCTAAGAGCCTTATGAGCCCAGCGA
CTTCTGAAGGGCCCTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTTCTTA
ACTACCCTAA

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FIGURE 5676A

GGGGAGGAAGAAAGGCGAAGGCAAGGCGAAGGGGTGGAGAGTGATATGAAGAGCGAGAGAAAAGAGAGGACAGCG
GACGAGCAGATCCGGTATCTGGAATCCCGGCGCCTAGAACGTGTTTTTCGGGAGAGCAAAGGCTGTGTCTACGGC
AGGCTGGGGATATAGCCTCTCCTTCCGATGAAAAGAGAAAGGAAGAATGACTACAGCCACCAAACGTCCCTAGT
CCCATGTGGACAAGATAAATACATTTCCAAAAATGAACCTCTCTTGCATCTGAAGACCTACAACCTGTACTATGA
AGGCCAGAATTTACAGCTCCGGCACCCGGGAGGAAGAAGACGAGTTTATTGTGGAGGGGCTCCTGAACATCTCCTG
GGGCTGCGCCGGCCCATTCGCCTGCAGATGCAGGATGACAACGAACGCATTTCGACCCCCCTCCATCCTCCTCCTC
CTGGCACTCTGGCTGTAACCTGGGGGCTCAGGGAACCACTCTGAAGCCCCCTGACTGTGCCCAAAGTTCAGATCTC
AGAGGTGGATGCCCCGCCGGAGGGTGACCAGATGCCAAGCTCCACAGACTCCAGGGGCTGAAGCCCCCTGCAGGA
GGACACCCACAGCTGATGCGCACACGCAGTGATGTTGGGGTGCGTCGCCGTGGCAATGTGAGGACGCCTAGTGA
CCAGCGGCGAATCAGACGCCACCGCTTCTCCATCAACGGCCATTTCTACAACCAATAAGACATCCGTGTTACACC
AGCCTATGGCTCTGTACCAACGTCCGCATCAACAGCACCATGACCACCCACAGGTCCTGAAGCTGCTGCTCAA
CAAATTTAAGATTGAGAATTCAGCAGAGGAGTTTGCCTGTACGTGGTCCATACGAGTGGTGAGAAACAGAAGCT
GAAGGCCACCGATTACCCGCTGATTGCCCGAATCCTCCAGGGCCCATGTGAGCAGATCTCCAAAGTGTTCCTAAT
GGAGAAGGACCAGGTGGAGGAAGTCACCTACGACGTGGCCAGTATATAAAGTTCGAGATGCCGGTACTTTAAAG
CTTCATTCAGAAGCTCCAGGAGGAAGAAGATCGGGAAGTAAAGAAGCTGATGCGCAAGTACACCGTGCTCCGGCT
AATGATTCGACAGAGGCTGGAGGAGATAGCCGAGACCCAGCAACAATCTGAGCCATGAGAACGAGGGGATCTGG
GCACCCAGGAACCGCCATTGCCCATAAAGACCCACAGGAAGCTAGGCACCTTCTTCCATGGAAACATTTAGACA
CAAACCTCCCCAGCTCCGGCCAAGCCATCATTTGCTACCTGGAGCTGGATGTAGAAGTCAGCAGACAGCTCCCTA
TCCCTGGACCCCTGCCCTCCTTTTTTCTGCTCACAAGGACTTTTTGATTTTAGTTATAAGGAGGACCCAAAATGTG
TGTGTGTACATGTGTGTGCACACATGGTACGTGTCCATGTGCCTACCTGATACTTTCACATGTAATTAATTTCCA
GGCAACCAGCACAAAGAGCCGTGAGCTTGGCACATGTGCTGCTCGTGAGCAGGAAAATCAGAGGAGCCACTGATCT
GAGTGGTATTTAGGTTGAAGGAAAGATTTCTCCTCTCAAGTGCCAGGGAGCAGCCACACGTCTGTCTGTGTTTAG
AGAGGGAAGAGGGTTCTCCAGGTTACCATTTGGGTTGTTTATATGTTGGTAGAAATCTCCCTGTATGCCTAGA
AGGATCAGTGAATGTAAGAGCCTTGGAATTAACAAAATAACAGCCACATAACCTTGCGGCAAGTCTGATGGAAA
GAAAAAGATAAAACCATCCGTGGGGTAGATGCAATAAGCCCACGTATTTTTTACACTGGAAACGTTGATTGTTTTAA
ATGACAAAAGACATATGTGATGTTCTATGTGGAACCTGTGAAGAGTGGATTCTGCCTCCATCTCTGCCTCCATGG
CTACCTTTTAGGAGACAGAGAAGATCCTGTGTGTTTCTGTACCCAGCTGACAGCCTGTCTCTATGGCGCTTCCT
TGAGTGGAAGGAAATGTCTCAAGAAACAAAGATCTCGCTGGTGCGTACACAGTGCTGACCAGCTAGTGTGGCCAG
GGCCTGGTGGCCTGGTGGCCAGGAAGTTTCAGGTTGAAGGGAAATGTGAGGCTACCTGCAGATATGACAGGTGC
CTTGAACGCAGCCCATCTTCATGTCATCAAAGGTCTTCTGCACTTGAAGCTGGGGCGATGTTTGCAGTCAAGAC
CATTCTTTCCAACCTCTGGGTTCTTGCAAGTTGCCCTCACCTTGTGTGTGGAGATGCATTCCAAGAATGAAGCCT
CATCTTGCTACTGAGTGTGGGGTTCAGGGAAGCTCTTTAGGCCACCTGGTGAAGGTGCATGGGGAGGATGGAGCT
TCTCCTCAGCTCCTCTGAGCAGCCACCTATGTGATCTTTAAATCCAACCCCAATGGGAGAAAAGGGCAAGAACAG
TCTGTGCCCTGGGACTCCTATCAGGAAGCTTGACAGGCAGCTGGGCATCAGTGCAGCTGATATCGTTTTGAGGAGG
GAGACAGATGCTTGGACCTGGGTGCCCTGGCTATGGAGATTGACCAAGCAAGATCAGGAGCTCCTGATAGCAGGCG
TCTTTGAGCCTAGCTGGGGTAGAGGCACTGCCATCTCTTCTCCACCTTCTCTCCACAGAATGTTTGCAGAGCTG
GGCAGTTGAGGAAAGGACAGCCCCCTGGTTGGTGCCCTCAAAGGAAGGTGGACTTTTTTGGTGGAGACGTTTCTGC
CCTGGGCACCCCTCCTGCCCCGATTACATCCTATGGCTTCTTGAGAAGGCTCACAGCTGTGGTCTTAACGTAGAC
TGCAGAAAGATGGCATGCGGCCCTGGCATTTCGCCAAGGGTTTTATAGCAAGTCTCCTTCTCCATAGGGACAG
CAGCACCAGCCCTGTGGGGCATGGAGTGAAGCCAGAAGGGCTTCTGCAAGCTGCACAGAAGTGGGGTAAGAAG
ACAAAGAGTAGCCACCGGGAGAGGCTTCCTTTGTTACAGCTGGGAAAGAACAGTTCTGTGAATGCAACACCTCC
TGAGTTTTGCAATTGAGAAAATGATTTGGAGAAGTCTCTTCTGTTAATTTTTATTTTGAATGTTTACAGGGCCTTA
GTTGGCCCCAGTAATTTCTCCTTGGAGGACTTGGGAGAAGAATTTCCACAAAGCAAAGTACTAACCCTAGCTCTT
ACTGGACAGCGATTTCTGGCTTATAAGAGTTCTCTTTGATTTGCACTAGCACTACGATAGTGTAGATGGGGAAA
TACTGCAACATGTCCAGTTGGCCAGATCACTTTCCAAGGGAGCGATACTAAGGCAGACTCAGCTTTTTAAAGATG
GGAGGTGAGGAGGTGGAAGTGAGAGGAGATCCCATCTCACACAACACACTCCACGTAATGCAGACCACACTTTT
CCATTTTGTCTGCTGCTCCTTGGAGAGGTCACTTCTCACGTCTTAAGAACCCTGATCAGAAATTTTGAAGGGTCTT
TGAAATAGCAGCAGTTGAAACAGAGACACTTTGCCACAGTGTGGAGCAGATTTTCTCACTGGTATCACATGGTCT

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FIGURE 5676B

TGCAGTTTTGAACTCTTCGACCGATTTGTGGGAGTTTATGTAATTGCGTGCAATGAACCTGAAATTGTGTAAAGG
ACAAAAGACCAGTTTATAGGGTTGGGTTTTTTTTTCCAACCTTGTGAAAAGCAGTTTAGCTGCATCTGTCTCCCCAC
CACCCCCACCCCGGGAGGGGCTTATGTTACAAGGTGATCAAGTGAAGGAAAAACCTGAGCCTATCTGGCTGGGAT
GGTGGAATTAAGCACAAAGGTCACATTCTCTGTGATCACATGAGAGGGAAGGTGATGACTTAAATGGCAGGGGGTG
GGGATTATCTTGGGGAGAGGCTGAAAAGCACAAAAGATAGTCTTCCCTGTACGTATTGGTGAAAGAACGTGCACAA
GGCTGGATGGACTTCAACTTGGAGTTGAGTTGAGGCAAGAGGATTTCTGGATATTAGTCACCCATCTGCAAGAAA
AATGCTGAGGCCTCGGGTCAAGATTTTGATCTGAGACATGCTGATGCTTCAAGGAGAAAATATTTTCACAATCCTC
TCTTCCCTCACCAGAAGAGAACAGTACTCTCTCCTAGAAACCTCTAGGTAAACACATTTTATCCTAATATCGGTA
GCATATAATGCCCCCCCCAAAATATCTGTTTTCCATGCAAAAAAGTCTCAACAAGAAAGTCTGTGGAGTTGAGTGG
TTACTTCAAAGTGTCAAGGAGAGTGAAGAAATTGGCCACAGAAGAGCAAGAAGCTCTCTTAAGAAAAGGGAATTCT
CTTTAAAGAAACCACCACCAACAACAAAACAACCAAAAACCATGTTTTATGTCAAAGCTCTGTAGCACAGAGAAT
GTGGTGTACAGATACATCGCCGAGAGAGGTTTCTTTCTTTCTTTTTTTTTTTTTTTGAGACAGAGTCTGGTTCTG
TTTCCAGGCTGGAGTGCAGTGGTGGGATCTCAGCTCACTGCAACATCCGCCCTCTGGGGTTCAAGTGATTCTCCT
GTCTCAGCCTCCCAAGTAGCTGGAATTACAGGGACCCGCCACCACGCCCGGCTAATTTTTTTGTGTGGTTTTAGT
AGAGGTGGGGTTTTACCATCTTGGCCAGGCTGGTCTTGAACCTCTGACCTCGTGATCCACCCGCCTAGGCCTCCC
AAAGTGTTGGGATTACAGGCGTGAGCCACTGTGCCAGCCAAAAGAGAAATTTCTACATGAACAAGGCAATTTCA
GTGTCTTACAGCGGCCAAACCATGACGTGAAGAATGAGATAGGAGACAGGAGATCACCATAAGCGTCCCTGATAT
AGCAGCACACATTTTACGTTTCCACTTAAATCGTTTTGCACAAAGTCTTGCTTCGCTCAGATGAGATGAGATAT
GATTTCTAGAGATGTAAAAATAAGAATGAATGTGGCGCCCCCTTCTTCCAGATGTAATAGAAAGCTCTGCCCTA
TCACAAGGGGGGTGTTGAAGCGCCCCTTGTGTTTTAACTGTATTTAACTGAGCACAAAGATGCACAAGCTGTGGTG
GGAAACCCTCAGTTTACCTTTGGAGTCTTCCCTGCAGATCGCAGACCTGTTTCCAGGCTGATGTTTCTGGTGTGT
AATTGCTAGCGTTTCTGAAGGGTTTTCCCAATTGTTTTAGCCTTGTGAAGTATTCTTAATTATAACTTGCCTTTC
AGCGATGGTACATGACTTGATTCAACGTTTGGTTCTGAACTTACACACTGATGCGTTTACTCATCTAACATAATC
TGACAGGGCCTCAGCAAGGGAGCCATACATTTTTGTAACATTTTGATATGTTTTAATGCATCTGACTTAGATCTT
ACTGAAATAAAGCACTTTTCAAAGAG

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FIGURE 5677

MDYSHQTSLVPCGQDKYISKNEALLHLKTYNLYYEGQNLQLRHREEEDEFIVEGLLNISWGLRRPIRLQMDDNE
RIRPPSSSSSWHSGCNLGAQGTTLKPLTVPKVQISEVDAPPEGDQMPSSSTDSRGLKPLQEDTPQLMRTRSDVGVR
RRGNVRTPSDQRRIRRHRSINGHFYNHKTSVFTPAYGSVTNVRINSTMTTPQVLKLLLNKFKIENSAEEFALYV
VHTSGEKQKLKATDYPLIARILQGPCEQISKVFLMEKDQVEEVTYDVAQYIKFEMPVLKSFIQKLQEEEDREVKK
LMRKYTVLRLMIRQRLEEIAETPATI

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FIGURE 5678

GTCTCAGCCGGTCGTCGCGACGTTGCGCCGCTCGCTCTGAGGCTCCTGAAGCCGAAAACCAGCTAGACTTTTCCTCC
TTCCCGCCTGCCTGTAGCGGCGTTGTTGCCACTCCGCCACCATGTTGAGGCGCGCCTGGTCCAGGGCTCCATCC
TCAAGAAGGTGTTGGAGGCACTCAAGGACCTCATCAACGAGGCCTGCTGGGATATTAGCTCCAGCGGTGTAAACC
TGCAGAGCATGGACTCGTCCCACGTCTCTTTGGTGCAGCTCACCCCTGCGGTCTGAGGGCTTCGACACCTACCGCT
GCGACCGCAACCTGGCCATGGGCGTGAACCTCACCAGTATGTCCAAAATACTAAAATGCGCCGGCAATGAAGATA
TCATTACACTAAGGGCCGAAGATAACGCGGATACCTTGGCGCTAGTATTTGAAGCACCAAACCAGGAGAAAGTTT
CAGACTATGAAATGAAGTTGATGGATTTAGATGTTGAACAACCTTGGAAATCCAGAACAGGAGTACAGCTGTGTAG
TAAAGATGCCTTCTGGTGAATTTGCACGTATATGCCGAGATCTCAGCCATATTGGAGATGCTGTTGTAATTTCT
GTGCAAAAGACGGAGTGAAATTTTCTGCAAGTGGAGAACTTGGAAATGGAAACATTAAATTGTCACAGACAAGTA
ATGTCGATAAAGAGGAGGAAGCTGTTACCATAGAGATGAATGAACCAGTTCAACTAACTTTGCACTGAGGTACC
TGAATTCTTTACAAAAGCCACTCCACTCTCTTCAACGGTGACACTCAGTATGTCTGCAGATGTACCCCTTGTTG
TAGAGTATAAAATTGCGGATATGGGACACTTAAAATACTACTTGGCTCCCAAGATCGAGGATGAAGAAGGATCTT
AGGCATTCTTAAATTTCAAGAAAATAAACTAAGCTCTTTGAGAAGTCTTCTAAGATGCCAGCATATACTGAAG
TCTTTTCTGTCACCAAATTTGTACCTCTAAGTACATATGTAGATATTGTTTTCTGTAAATAACCTATTTTTTTCT
CTATTCTCTGCAATTTGTTTAAAGAATAAAGTCCAAAGTCAGATCTGGTCTAGTTAACCTAGAAGTATTTTTGTC
TCTTAGAAATACTTGATTTTTATAATACAAAAGGGTCTTGACTCTAAATGCAGTTTTAAGAATTGTTTTTGAA
TTTAAATAAAGTTACTTGAATTC

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FIGURE 5679

CCAGGAGGCACGCTGGTTTTCCGGGGCCGCTCCATCGCGCCTTCCTCCTGCGCCTCGCTTCTCCGGTCCAGCCGC
CATCTTCCTTTCCGCACAGGGGCCCGAGCGGGGCCATGCAGCCAACGCTGCTTCTCAGCCTCCTGGGAGCCGT
GGGGCTGGCGGCTGTCAATTCCATGCCAGTGGATAACAGGAACCACAATGAAGGAATGGTGA CTGCTGCATCAT
TGAGGTCTCTCAAATGCCTTGTCGAAGTCCAGCGCTCCACCCATCACCCCTGAGTGCCGCCAAGTCCTGAAGAC
GAGTAGAAAAGACGTCAAAGACAAAGAGACA ACTGAAAATGAAAACACAAAGTTTGAAGTAAGATTGTTAAGAGA
CCCAGCTGATGCCTCGGAAGCCCACGAGTCCTCCAGCAGGGGAGAGGCAGGAGCCCCAGGGGAGGAGGACATCCA
AGGCCCAACAAAGGCAGACACAGAGAAATGGGCAGAGGGAGGCGGGCACAGCCGAGAGCGAGCGGATGAGCCCCA
GTGGAGCCTCTATCCCTCCGACAGCCAAGTCTCTGAAGAAGTGAAGACACGCCATTCTGAGAAGAGCCAGAGAGA
GGATGAGGAGGAGGAGGAGGGAGAGAACTATCAAAAAGGGGAGCGAGGGGAAGATAGCAGTGAAGAGAAACACCT
TGAAGAGCCAGGAGAGACACAAAACGCTTTTCTCAATGAAAGAAAGCAGGCTTCAGCTATAAAAAAAGAGGAGTT
AGTGGCCAGATCGGAAACACATGCTGCCGGGCATTCTCAGGAGAAGACACATAGCCGAGAGAAGAGTAGCCAGGA
GAGTGGAGAGGAGGCAGGGAGCCAGGAGAATCACCCCCAGGAGTCTAAAGGCCAACCCGAAGCCAGGAAGAATC
TGAGGAAGGTGAGGAAGATGCCACCTCTGAGGTGGACAAACGACGCACGAGGCCCAGACACCACCACGGGAGGAG
CAGGCCCCGACAGGTCTCTCAAGGAGGGAGTCTTCCCTCTGAGGAAAAGGGACACCCCCAGGAGGAATCTGAGGA
GTCAAACGTCAGCATGGCCAGTTTAGGGGAAAAGAGGGACCACCATTCAACCCACTACAGGGCTTCAGAGGAAGA
ACCTGAATATGGAGAAGAAATAAAGGGTTATCCAGGCGTCCAGGCCCCCTGAGGACCTGGAGTGGGAGCGCTATAG
GGGCAGAGGAAGTGAAGAATACAGGGCTCCAAGACCTCAGAGTGAGGAGAGTTGGGATGAGGAGGACAAGAGAAA
CTACCCACAGCTTAGAGCTTGATAAGATGGCACATGGATATGGTGAAGAAAGTGAGGAAGAGAGGGGCCCTTGAGCC
GGGAAAGGGACGCCATCACAGAGGCAGGGGAGGGGAGCCACGTGCCTATTTTCATGTCTGACACCAGAGAAGAGAA
AAGGTTCTTGGGTGAAGGACACCACCGTGTCCAAGAAAACCAGATGGACAAGGCAAGGAGGCATCCACAAGGTGC
GTGGAAGAGCTGGACAGAAATTATCTCAACTACGGTGAGGAAGGAGCCCCAGGGAAGTGGCAGCAGCAGGGAGA
CCTG CAGGACACTAAAGAAAACAGGGAGGAAGCTAGGTTTCAAGATAAACAATATAGCTCCCATCACACAGCTGA
AAAGAGGAAGAGATTAGGGGAAGTGTCAACCCATACTACGACCCTCTCCAGTGGAAGAGCAGCCATTTTGAAAG
AAGAGACAACATGAATGACAATTTTCTCGAGGGTGAGGAGGAAAATGAGCTGACCTTGAACGAGAAGAATTTCTT
CCCAGAATACAACTATGACTGGTGGGAGAAAAAGCCCTTCTCTGAGGATGTGAACTGGGGGTATGAGAAGAGAAA
CCTCGCCAGGGTCCCCAAGCTGGACCTGAAAAGGCAATATGACAGGGTGGCCCAACTGGACCAGCTCCTTCTACTA
CAGGAAGAAGTCAGCTGAGTTTCCAGACTTCTATGATTCTGAGGAGCCGGTGAGCACCCACCAGGAGGCAGAAAA
TGAAAAGGACAGGGCTGACCAGACAGTCCTGACAGAGGACGAGAAAAAAGAACTCGAAAACCTGGCTGCAATGGA
TTTGGA ACTACAGAAGATAGCTGAGAAATTCAGCCAAAGGGGCTGACTGTCATTGGAGCGGTGGGCACTGTTAAG
AAGCAGCCATCACATGATCTGTTTTTACCACCTTCACTGAAAGACACCATTTATATACCCAAGGGCAGAAAGTAG
AACTTACTATTATTAAATGTTTGACACAATTGGAATTGCTTTTAATTTCTGTCAGAATGCTATTGAAAATGTGA
ATTGCATGACTTGTAGCATATTCTTTTCTGCAAAATAGACATATTAACATGCTTATGACAATGACTGTGCTACTG
TCTTTGGAAAAATGTTTGTCTCAGTTGGAAATAATAAAAGATTACCTGAGACC

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FIGURE 5680

MQPTLLLSLLGAVGLAAVNSMPVDNRNHNEGMVTRCIIIEVLSNALSKSSAPPITPECRQVLKTSRKDVKDKETTE
NENTKFEVRLLRDPADASEAHESSSRGEAGAPGEEDIQGPTKADTEKWAEGGGHSRERADEPQWSLYPSDSQVSE
EVKTRHSEKSQREDEEEEEGENYQKGERGEDSSEEKHLLEPGETQNAFLNERKQASAIKKEELVARSETHAAGHS
QEKTHSREKSSQESGEEAGSQENHPQESKGQPRSQEESSEEGEEDATSEVDKRRTRPRHHHGRSRPDRSSQGGSLP
SEEKGHPQEESEESNVSMASLGEKRDHSTHYRASEEEPEYGEEIKGYPGVQAPEDLEWERYRGRGSEERYRAPRP
QSEESWDEEDKRNYPSELDKMAHGYGEESEEEERGLEPGKGRHHRGRGGEPRAYFMSDTREEKRFLGEGHHRVQE
NQMDKARRHPQGAWKELDRNYLNYGEEGAPGKWQQQGDLDQTKENREEARFQDKQYSSHTAEKRKRLGELFNPY
YDFLOWKSSHFERRDNMNDNFLEGEENELTLNEKNFFPEYNYDWWEKKPFSEDVNWGYEKRNLARVPKLDLKRQ
YDRVAQLDQLLHYRKKSAEFPDFYDSEEPVSTHQEAENEKDRADQTVLTEDEKKELENLAAMDLELQKIAEKFSQ
RG

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FIGURE 5681

ATGCTAGCCTTGCGCGTGGCGCGCGGCTCGTGGGGGGCCCTGCGCGGCGCCGCTTGGGCTCCGGGAACGCGGCCG
AGTAAGCGACGCGCCTGCTGGGCCCTGCTGCCGCCCGTGCCCTGCTGCTTGGGCTGCCTGGCCGAACGCTGGAGG
CTGCGTCCGGCCGCTCTTGGCTTGCGGCTGCCCGGGATCGGCCAGCGGAACCACTGTTGCGGGCGCGGGGAAGGCG
GCTCCCAGGCCAGCGGCCGGAGCGGGCGCCGCTGCCGAAGCCCCGGGCGGCCAGTGGGGCCCGGCGAGCACCCCC
AGCCTGTATGAAAACCCATGGACAATCCGAATATGTTGTCAATGACGAGAATTGGCTTGGCCCCAGTTCTGGGC
TATTTGATTATTGAAGAAGATTTTAATATTGCACTAGGAGTTTTTGCTTTAGCTGGACTAACAGATTTGTTGGAT
GGATTTATTGCTCGAAACTGGGCCAATCAAAGATCAGCTTTGGGAAGTGCTCTTGATCCACTTGCTGATAAAATA
CTTATCAGTATCTTATATGTTAGCTTGACCTATGCAGATCTTATTCCAGTTCCACTTACTTACATGATCATTTCG
AGAGATGTAATGTTGATTGCTGCTGTTTTTTATGTCAGATACCGAACTCTTCCAACACCACGAACACTTGCCAAG
TATTTCAATCCTTGCTATGCCACTGCTAGGTTAAACCAACATTTCATCAGCAAGGTGAATACAGCAGTCCAGTTA
ATCTTGGTGGCAGCTTCTTTGGCAGCTCCAGTTTTCAACTATGCTGACAGCATTTATCTTCAGATACTATGGTGT
TTTACAGCTTTCACCACAGCTGCATCAGCTTATAGTTACTATCATTATGGCCGGAAGACTGTTTCAGGTGATAAAA
GACTTGA

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FIGURE 5682

MLALRVARGSWGALRGAAWAPGTRPSKRRACWALLPPVPCCLGCLAERWRLRPAALGLRLPGIGQRNHCSGAGKA
APRPAAGAGAAAEAPGGQWGPASTPSLYENPWTIPNMLSMTRIGLAPVLGYLIEEDFNIALGVFALAGLTDLLD
GFIARNWANQRSALGSALDPLADKILISILYVSLTYADLIPVPLTYMIISRDVMLIAAVFYVRYRTLPTPRTLAK
YFNPCYATARLKPTFISKVNTAVQLILVAASLAAPVFNYADSIYLQILWCFTAFTTAASAYSYYHYGRKTVQVIK
D

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FIGURE 5683

GCCTGGCTCCGTTTTCCTGCTTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTCGTGCGCCTTCTACC
TCGCTGTTTCGGTTTTTCCTGGCTCCTCGGCCCTTTTCTCCCCTGTTGCAGCTGGGAGCGGACGAAGCGCGAAGCT
GGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAATCATACAATTTATATCAACA
ATATGAATGACAAAATTAAAAAGGAAGAATTGAAGAGATCCCTATATGCCCTGTTTTCTCAGTTTGGTCATGTGG
TGGACATTGTGGCTTTAAAGACCATGAAGATGAGGGGCGAGGCCTTTGTTCATATTTAAGGAACCTGGGCTCATCCA
CAAATGCCTTGAGACAGCTACAAGGATTTCCATTTTATGGTAAACCAATGCGAATACAGTATGCAAAAACAGATT
CGGATATAATATCAAAAATGCGTGGAACCTTTGCTGACAAAGAAAAGAAAAAGAAAAAGCCAAAACCTG
TGGAACAGACTGCAACAACCACAAACAAAAGCCTGGCCAGGGAACCTCAAATTCAGCTAATACCCAAGGAAATT
CAACACCAAATCCTCAGGTCCCTGATTACCCTCCAACTATATTTTATTCCTTAATAACTTACCAGAAGAGACTA
ATGAGATGATGTTATCCATGCTGTTTAATCAGTTCCCTGGCTTCAAGGAAGTACGTCTGGTACCAGGGAGGCATG
ACATTGCTTTTGTGTAATTTGAAAAATGATGGGCAGGCTGGAGCTGCCAGGGATGCTTTACAGGGATTTAAGATCA
CACCGTCCCATGCTATGAAGATCACCTATGCCAAGAAATTAACATTTGGGATAGTCGTCTTTAAAAGACTTGGTGT
TATTTACAGTGTTTGTGTTTGGATAACATTTGGCTGGGTCAATTTAATAGTTAGAGATGAGGAGGAGTAAAAGTGAA
ATTTTTGTGAAGGACTTAAATTATCCAGTGTTTCTTTAGCCTTGGTGAACCTATGAAATACGAAGGCCTTAATTTT
GTACAATAAACTTTTATTTGTATTCTGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5684

MDIRPNHTIYINNMNDKIKKEELKRSLYALFSQFGHVVDIVALKTMKMRGQAFVIFKELGSSTNALRQLQGFPFY
GKPMRIQYAKTDSDIISKMRGTFADKEKKKEKKKAKTVEQTATTTNKKPGQGTTPNSANTQGNSTPNPQVPDYPPN
YILFLNNLPEETNEMMLSMLEFNQFPGFKEVRLVPGRHDIAFVEFENDGQAGAARDALQGFKITPSHAMKITIYAKK

FIGURE 5685

GAGAGGCGCCAGGCGCGCGCGCGCGGCCAGCTTCTTCTTCTCGCACAGCCAGGCGGCCCTGCTCGAGT
CCCCGCTCGCCATGCGCGCGGTTCGCGAGTTGCTGCAGCAGCAGGAGGAGGACCGCAGCAAGCTGAGATCTGTAT
CTGTGGACCTGAATGTTGATCCCTCGCTTCAGATTGACATACCTGATGCGCTCAGTGAGAGAGACAAAGTCAAAT
TTACAGTGCACACAAAGACCACACTGCCACGTTTCAGAGCCAGAGTTTTCTGTTACAAGGCAACATGAAGACT
TTGTGTGGCTACATGACACTCTTATTGAAACAACAGACTATGCTGGGCTTATTATTCCACCTGCTCCTACGAAGC
CCGACTTTGATGGTCCCTCGAGAGAAGATGCAGAACTGGGAGAAGGTGAAGGGTCTATGACCAAAGAAGAATTTG
CCAAGATGAAACAAGAAGCTGGAAGCTGAGTATCTCGCTGTGTTTAAAGAAGACTGTGTCTCCCATGAAGTCTTTC
TTCAGCGGCTTTCTTCTCACCCGTCTCTCAGTAAAGATCGCAACTTTCATGTTTTCTGGAATATGATCAGGATC
TAAGTGTTAGGCGGAAAAATACTAAAGAGATGTTTGGTGGCTTCTTCAAAGTGTGGTGAAAAGTGTGTATGAAG
TCCTTTTTACTGGAGTTAAGGAGGTAGATGACTTCTTTGAGCAAGAGAAGAACTTCCTTATTAATACTATTACAATA
GGATCAAAGATTCTTGTGTGAAAGCTGACAAAATGACCAGATCTCATAAAAAATGTTGCCGATGACTATATCCACA
CCGCAGCCTGCTTACATAGCCTGGCTTTAGAAGAGCCACAGTCATCAAAAAAGTACCTATTGAAGGTTGCTGAGC
TATTTGAAAAAATAAGGAAAAGTAGAGGGTCGAGTTTCATCAGATGAAGATTTGAAGCTAACAGAGTCTCTCCGAT
ACTACATGCTCAACATTGAAGCTGCTAAGGATCTCTTATACAGACGCACCAAAGCCCTCATTGACTATGAGAAGT
CAAACAAAGCTCTGGATAAGGCCCGGTTAAAGAGCAAAGACGTCAGTTGGCTGAGGCACACCAGCAGGAGTGCT
GCCAGAAATTTGAACAACTTTCCGAATCTGCAAAAGAAGAACTGATAAAATTTCAAACGGAAGAGAGTGGCAGCAT
TTAGAAAGAATCTAATTGAAATGTCTGAACTGGAATAAAACATGCCAGGAACAATGTCTCCCTTTTGAGAGCT
GTATTGACTTGTTCAAGAAATAACTGATATGCCCTTCACTCAGAAGAAAAAGAAATGAATGTGAAAGAAAGCCAAGCA
TCACTTGCACTTAAATCATTACCACGGAAGATATATTAGCTTCAACTTTAGTTTAAAAATTATGTGAATAAATATT
TTGATTTCTACAAATCTTAACATTTAACCATGTTGGTTTAAAAATATTATTGCTTGCTACTTTGGACATAACTAAT
TTTTCTTGTCATTTAATACCTCTGGGCAGAAATCCAAATACTGGGTCTCCCGTAGTTTCGTCTTTAGTTACTAA
GAAAGGTGTAGGACACATTAGCCTTCTGGAACAAGTAGAAGCCATCACCTGGCCCATGTCCTACAAACCCAT
GATTGTCAGGGAGGTGCCAGTTACAGCAGGTGATTTCAGCTACTTGAGGTGCGTAACAGACCTTCCATTCTCTACT
GAAGGTGGGGTTTGTTTTTTGTTTTGCCCCGTTTACTCCACTGGTAGTCATCTGGTGTGTTGTACTATAACAACAG
CAAGAAAAATCTCATTTATCTTTATATACTCTTTTGACCTCCTTTTTTTTAGTCGAGATATAAATATTTGAGGGGAG
AGAAATATCTACAGGTATATATGGAAACAAATAATGTGGTCTGCTTTATAAGATGGCCAGATCTACATTAGGAAA
AGTATAAGCCCCCTCCCTAATGGCCGCTGGGGGGTGAGGGCGGTGTGTTGTATGTCTTTGGGTGTTTGTTTTTT
ATAAAGCATATAATAAAAAATAATCGTGCTACT

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FIGURE 5686

MAAVPELLQQQEEDRSKLRSVSVDLNVDP SLQIDIPDALSERDKVKFTVHTKTTLPTFQSPEFSVTRQHEDFVWL
HDTLIETTDYAGLIIPPAPTKPDFDGP REKMQLGEGEGSMTKEEFAKMKQELEAEYLAVFKKT VSSHEVFLQRL
SSHPVLSKDRNFHV FLEYDQDLSVRRKNTKEMFGGFFKSVVKSAD EVLFTGVKEVDDFFEQEKNFLINYYNRIKD
SCVKADKMTRSHKNVADDYIHTAAC LHSLALEEPTVIKKYLLKVAELFEKLRKVEGRVSSDEDLKLTELLRY YML
NIEAAKDLLYRRTKALIDYENS NKALDKARLKS KDVKLAEAHQECCQKFEQLSESAKEELINFKRKRVA AFRKN
LIEMSELEIKHARNNVSLQSCIDLFKNN

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FIGURE 5687

GAGAGTGTCCGTTGCTTCCCGTCCGTGTCGCGGCCCTGCGGTTGGCGGCCCTCCTCGTGGAGCGGAGCAAGGGTAG
GCCCCACGTGGCGTCTTTGCCCCGGCTCCAAGATGGACGGCAGCGGGGACTGGGAGGCTGCTCTGGGGGAGCACGT
GGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGGAGGCCCTCCTGCCGCCGTGCGGCAG
GGAGGCCGGCGGAGGCGGGGCCGTGGCCGCCCCGAGAGGCGCCAGGCGGCGGCGGCGGCCAGCTTCTTC
TTTCTCGCACAGCCAGGCGGCCCTGCTCGAGTCCCGCGTCCGCGCATGGCCGCGGTTCCCGAGTTGCTGCAGCAG
CAGGAGGAGGACCGCAGCAAGGTGAGGTCTCTCCAGCCTCAGACTCCTGGGCGGGCGGCCCTGCGAGCTCCGGGG
TCGCTGCATTCTTTCCCTTGCGCGTCCATAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGCGGGAAGCACCCGTG
AGACCCGGGCGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCCGGGGAATCCCTGTGGATGTCCCGGATTCTA
TTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGGTGCCGAGCGGACTTGGAGAGATGATC
TCTGGAGACCCCGGAATGTTCTTTTTTAAACCTTCTCGGCTTCGTGGTGACCAGTAGGTGAACGTGAAATTGAC
TTAACATGCGACAGACCAGTTTGGTTTGTGCCCCAAAATACCCTCCTTCCCCCACCTTTTACTGAGAAGACT
TTTTTGGGGGGGGGGCCCCAAACAACCTGGGAAATTGCATCAAGCGTCCGAACATGCTGCTTACAACCTTAGAAAC
GCAAAATGCGTTGTTGTGGGAGTTGTGTAATTTTTAGTAGGTGCTCAAATACTTGCTGAACTTGGTGTCTATTTT
TAAGTCTTGCCCATTGATGTAAACTGTCCCTAGGTCACGTGTATCTTGAGGTCTAAAAGATTATTTATGCAATAA
ATTGAAATTCCCATAGCCAATTAAAGATTTC

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FIGURE 5688

CTTTCTCTAGACGCGTCTTGCTGGGAGAGTGTCCGTTGCTTCCCGTCCGTGTCGCGGCCCTGCGGTTGGCGGCCT
CCTCGTGGAGCGGAGCAAGGGTAGGCCCCACGTGGCGTCTTTGCCCGGCTCCAAGATGGACGGCAGCGGGGACTG
GGAGGCTGCTCTGGGGGAGCACGTGGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGG
AGGCCTCCTGCCGCCGTGCGGCAGGGAGGCCGCGGAGGCGGGGCCGTGGCCGCCCGGAGAGGCGCCCAGGCGG
CGGCGGCGGCGGCCAGCTTCTTCTTTCCTCGCACAGCCAGGCGGCCCTGCTCGAGTCCCGCGTCGCCATGGCC
GCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGACCGCAGCAAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGC
GGGAAGCACCCGTGAGACCCGGGCGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCCGGGGAATCCCTGTGGA
TGTCCCGGATTCTATTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGGTGCCGAGCGGAC
TT

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FIGURE 5689A

GAGGGGTCGAGCCTGGGCAGTACAGGCGGCGGTGCGCACTCTGCGGCGGCCTCTGCGCCTCGGGCGGGCGGGAGA
GAGAGGCCGCGGCCAGCGTGGGGATGTCTAGGAGCTCGAAGGTGGTGCTGGGCCTCTCGGTGCTGCTGACGG
CGGCCACAGTGGCCGGCGTACATGTGAAGCAGCAGTGGGACCAGCAGAGGCTTCGTGACGGAGTTATCAGAGACA
TTGAGAGGCAAATTCGGAAAAAGAAAACATTTCGTCTTTTGGGAGAACAGATTATTTTGAAGTGAAG
CAGAAAGAGAGAAGATGTTATTGGCAAAAGGATCTCAAAAATCATGACTTGAATGTGAAATATCTGTTGGACAGA
CAACACGAGTTTGTGTGTGTGTGTGTGATGGAGAGTAGCTTAGTAGTATCTTCATCTTTTTTTTTTGGTCACTGTCC
TTTTAACTTGATCAAAATAAGGACAGTGGGTCAATAAGTTACTGCTTTTCAGGGTCCCTTATATCTGAATAAAG
GAGTGTGGGCAGACACTTTTTGGAAGAGTCTGTCTGGGTGATCCTGGTAGAAGCCCCATTAGGGTCACTGTCCAG
TGCTTAGGGTTGTTACTGAGAAGCACTGCCGAGCTTGTGAGAAGGAAGGGATGGATAGTAGCATCCACCTGAGTA
GTCTGATCAGTCGGCATGATGACGAAGCCACGAGAACATCGACCTCAGAAGGACTGGAGGAAGGTGAAGTGGAGG
GAGAGACGCTCCTGATCGTCAATCCGAGGATCAGGCATCAGTGGACTTATCGCACGACCAGAGTGGGGATTCCC
TCAACAGTGATGAAGGAGACGTGTCTTGATGGAGGAGCAGCTGTCTACTTCTGTGACAAGTGCCAAAAATGGA
TACCAGCCAGTCAGCTGAGGGAACAGCTCAGTTACCTTAAGGGTGATAATTTTTTTAGGTTTACTTGTTCGGATT
GCTCAGCAGATGGCAAGGAGCAGTATGAAAGGCTGAAGCTGACATGGCAGCAAGTCGTATGTTGGCAATGTACA
ACTTGTCTCTGGAAGGAAGTGGACGTCAAGGTTATTTTCAGGTGGAAGAAGATATCTGTGCTTTTATTGAGAAAC
ATTGGACTTTTTTACTAGGGAATAGGAAAAAGACGTCTACCTGGTGGAGCACCGTGGCAGGTTGCCTCAGCGTGG
GAAGTCCCATGTACTTCCGTTTCAGGTGCTCAGGAATTTGGAGAGCCAGGATGGTGGAACTTGTTCATAACAAGC
CCCCAACGATGAAACCTGAAGGAGAGAAGTTGTCTGCCTCTACTTTGAAAATAAAAGCAGCCTCAAAACCAACTT
TAGATCCCATCATTACTGTTGAGGGACTTAGAAAAAGCAGCAAGTCGGAATCCTGTGGAATCTGCCATGGAATTAA
AAGAGAAAAGGTCTCGAACTCAGGAAGCAAAAGACATTAGAAGAGCCCAGAAGGAGGCCGCTGGCTTTCTTGACA
GGAGCACATCTTCTACCCCTGTAAAATTCTAAGCCGAGGCCGAGGCCAGATGTGATTCTGGAAAAAGGCGAAG
TGATTGACTTTTCTCTCTGAGCTCCTCTGACCGCACCCCGCTGACAAGCCCATCTCCTTCTCTCTCTGGATT
TCTCTGCCCCTGGTACACCTGCCTCTCATTCTGCCACACCTAGCTTGCTTTTCAGAAGCAGATCTGATTCCAGATG
TGATGCCCCACAAGCCTTGTTTCATGATGACGATGAGATGGAAGGCGATGGAGTCATAGACCAGGGATGGAGT
ACGTCCCACCCCTGCTGGGTGAGTCTTCTGGGCCAGTGGTTGGGGTCAGAAAGAAGGTGAGAGGCCCTGAAC
AGATAAAGCAGGAGGTAGAGAGTGAAGGAGAAAAACCCGACAGGATGGATATTGACAGTGAAGACACAGATTCAA
ACACATCTTTGCAACAAGGGCTAGAGAAAAAGAGGAAGCCTCAGCTGGAGAAGGACACAAAGCCGAAAGAGCCCA
GGTATACTCCCGTGAGCATCTACGAGGAAAAGCTGCTGCTCAAGAGGCTGGAAGCTTGTCCCGGTGCTGTTGCCA
TGACTCCGGAAGCTCGGAGACTGAAACGCAAACTGATTGTGACACAAGCGAAAAGGGATAGGGGATTACCACTTT
TTGACTTGGATCAAGTTGTTAATGCTGCTCTTTTGTAGTTGACGGGATTTATGGAGCCAAAGAAGGAGGAATTT
CCAGACTTCCAGCTGGACAAGCCACGTACAGAACCACCTGTGAGGACTTCAGAATCCTTGACCGATACCAGACTT
CCTTGCCGTCCAGGAAGGGATTTTCGACACCAGACCACCAAGTTTTTGTATCGCTTGGTAGGATCAGAAGATATGG
CTGTGGACCAGAGTATTGTGACCCCTTATACCTCTCGGATCTTGAAACCTTATATCAGGCGTGATTATGAAACAA
AGCCACCCAACTGCAGCTCCTGTACAGATTGCTTCCACCTGCACAGGAGCGACCCCTCACTGGACGCCGGAGC
CCGACGCACCTCTCGATTACTGTTATGTGCGGCCAAATCACATCCCAACGATCAACTCCATGTGTGTCAGGAGTTTT
TTTGGCCTGGCATTGACCTGTCTGAGTGTCTGCAGTACCCAGACTTCAGTGTGTGTTCTTTTATAAAAAAGTCA
TCATTGCCTTTGGCTTCATGGTTCCTGATGTGAAATACAATGAAGCTTACATTTTCTGTTTCGTCCACCCTG
AATGGAGAAGAGCAGGGATTGCAACTTTTCATGATCTATCATCTGATTGACACCTGCATGGGCAAGGACGTAACCC
TTCAGTCTCAGCAAGCAACCCTGCTATGCTACTGTACCAGAAGTTTGGATTCAAGACTGAAGAATATGTATTAG
ATTCTATGATAAATATTACCCATTGGAGAGTACAGAGTGTAACACGCATTCTTTCTGAGGCTCCGGCGCTGAT
GCGAATACAGCTCACAGAGAAACGCATGTGCTATTGGAGAACAGGTCTTTGTGGAGATCTAAAGGCAGTGATTGA
TTTCACAGGGAGCTCTAATCTCTGTGATTACATGGTCTTCAAACCTCCCAACCAAGTGAGAAAAGCGGCATGCA
GTGAAATGAGCAGTGAGCAGCCCTTTAGCAAAATCGCCCTCCAGTCTTCTGAGAGATGCCCTCAGCCAGCATCC
CAGACTCCACAGTTATTTATGAATGATGTCGTGATTCTCCCTCCACCTGACAGTTTGTAAAGAGTGAAAGAGCATC
TAACCTGATGCTCTTGGAGAGAGATAACCTGTCTGTGATAAATTAAAGGATGAGAAAATGTGGTGTAGCTATTAA
AGATTATGACAGTCCCAAAAGGCACTGTCTGGGATGATGAGAGATTATAAGGTGATTTTATAAAAGGAATCCAA
CCCTGTGCCCCGCCATTGATGTGTGTCATTGAATCCAGGAGGATTTCTAGGGCACTGAAGTTTTGTGTTTCTT
TTGCTGACTTTGGTTACAGTCAGAAAAATAAATACTAGATGTTTGTGTCTACATGTTCTACCTGTTGTACCTATTA

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FIGURE 5689B

GCATCTTCCTGCAGGGACTTGGGCCCATGGCCTGGGAGGTTGGTTTGGGATTGGGGTTGTTGGGCAGCCTGCCAT
TCACCTGGCCTATCCTGGCCCTTCTCATGCCCAAGACAGTTGTTTCACAGGAGTGGAAGTGTGGGTGATGCAAGT
AGAACCCTCTAGATGTACCCTGTGTGGTCTGCAGGACTGGACTGTTTGCTGTGTTTGTGGATGTTGGCGATAGAC
TGTC AATTAGGTTGTTTGTGATCCAACAAGAACATTTCCAAAAGTATCTAGGTGTTCTCAAATAAAAAGCTTTCT
TTGCACAACCC

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FIGURE 5690

MDSSIHLSLISRHDDEATRTSTSEGLEEGEVEGETLLLIVESEDQASVDLSHDQSGDSLNSDEGDVSWMEEQLSY
FCDKCQKWIPASQLREQLSYLKGDNFFRFTCSDCSADGKEQYERLKL TWQQVVMLAMYNLSLEGSGRQGYFRWKE
DICA FIEKHWTFL LGNRKKTSTWWSTVAGCLSVGSPMYFRSGAQEFGE PGWWKLVHNKPPTMKPEGEKLSASTLK
IKAASKPTLDP IITVEGLRK RASRNPFVESAMELKEKRSRTQEAKDIRRAQKEAAGFLDRSTSSTPVKFI SRGRRP
DVILEKGEVIDFSSLSSSDRTPLTSPSPSPSLDFSAPGTPASHSATPSLLSEADLIPDVMP PQALFHDDDEMEGD
GVIDPGMEYVPPPAGSVASGPVVGVRKKVRGPEQIKQEVESEEEKPDRMDIDSED TDSNTSLQTRAREKRKPQLE
KDTKPKEPRYTPVSIYEEKLLLKRLEACP GAVAMTPEARRLKRKLIVRQAKRDRGLPLFDLDQVVNAALLLVDGI
YGAKEGGISRLPAGQATYRTTCQDFRI LDRYQTSLSRKGFRHQTTKFLYRLVGSEDMAVDQSIVSPYTSRILKP
YIRRDYETKPPKLQLLSQIRSHLHRSDPHWTPEPDAPLDYCYVRPNHIPTINSMCQEFFWPGIDLSECLQYPDFS
VVVLYKKV IIAFGFMVPDVKYNEAYISFLFVHPEWRRAGIATFMIYHLIQTCMGKDVTLHVSASNPFAMLLYQKFG
FKTEEYVLDFYDKYYPLESTECKHAFFLRRLRR

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FIGURE 5691

ATGATGAACACAAACGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAGGACTTTTAGAAAACATGGAGTTGTT
CCTTTGGTCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAGACATCAAGGGAATGGGTACTGTTCAAAAA
GGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACAGTGTTACCCAGCATGCTGTTGGCATTGTT
AGCATTAAATGTGCATACTGAGCACATGAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAATGCATGAGGAAAATG
ATCAGAAAAAAAAAAGAAGCCAAAGAGAAAGAAGCACACTTTGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTG
GAACTTATTCCGTATGAATTCATGGCATAA

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FIGURE 5692

MMNTNGKRRGTRYMFSTRFRKHGVVPLVTYMRIYKKGDIVDIKMGTVQKGMPHKCYHGKTGRVYSVTQHAVGIV
SINVHTEHMKHKSRSDFLKCMRKMIRKKKEAKEKEAHFVRTNGKEPELLELIPYEFMA

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FIGURE 5693

TGGGCGCGCCTTCCGGGTGTCACCTCCAGAGGGCGCCGGCTGCGGAGCCTCCCTCAGAGTCGCGAGGCCGGACGC
ATCGCGGCGCCGCCCCACTCGCCCCAGCCGCGCCATGAAGGCCGTGGTGACGCGCTCACCCGGGCCAGCGTCA
CAGTTGGAGGAGAGCAGATTAGTGCCATTGGAAGGGGCATATGTGTGTTGCTGGGTATTTCCCTGGAGGATACGC
AGAAGGAAGTGAACACATGGTCCGAAAGATTCTAAACCTGCGTGTATTTGAGGATGAGAGTGGGAAGCACTGGT
CGAAGAGTGTGATGGACAAACAGTACGAGATTCTGTGTGTGTCAGCCAGTTTACCCTCCAGTGTGTCTGAAGGGAA
ACAAGCCTGATTTCCACCTAGCAATGCCCACGGAGCAGGCAGAGGGCTTCTACAACAGCTTCCTGGAGCAGCTGC
GTAAAACATACAGGCCGGAGCTTATCAAAGATGGCAAGTTTGGGGCCTACATGCAGGTGCACATTCAGAATGATG
GGCCTGTGACCATAGAGCTGGAATCGCCAGCTCCCGGCACTGCTACCTCTGACCCAAAGCAGACGGATTCTCGCT
CTGTCTCCCAGGCTGGAGTGCAGTGGCGGATCTCCGTTTATTGCAAGCTCCACCTCCCGGGTTCATGCCATTCT
TCTGCCTAAGCCTCCCAAGTAGCTGGGACTATAGGCACGTGCCACCATGCCCGGCTAATTTTTTTTGTATTTTTTT
AGTAGAGACGGGGTTTTACCATGTTAGCCAGGATGGTCTCGATCTCCTGCCCTGGTGATCCACCCGCCCTCGGCCT
CCCAAAGTGCTGGGATTACAGGTGTGAACCTACCGCGCCAGCCAAAGTTTACTAGGTTTTTTAAATGTCTTTTTT
CTGCTCCGGGATAATGCAGGATTCCACACGGCATTTAGTTGTCAATTTCTGCTTAGTCTTCTCCAATCTGTGACAG
TTCCCTCAGCCTTTCTTGTCTTTTGTGACATTGATACTTTTCAAGAGTACTAGTCTACTGTTTTGTAGAATGTTT
CTCACTTTGGGTTTTCTATGATTATATTGAGGTAATACATGTTGACAGGAATAGGAAATAGCACAGAAGTGATCT
TGTGCCCTTCATAGTGCATCCTACCAGGAGGTATGTGGTATTGATTTGTCTTGTACCTGTGATACCAGCCTTAT
TACTTGGTTCAGGTGAAGTCTACCAGATACCTCCATGTTAGATGAAGTGCTAACCTCTTTCCCTTGTCTGTCTT
CTGGCTCATTACAGCAGACAGCTCTCTCTCAGCTTTGCAGGGAAAGAAGCCAGCAGATGGCATTGACTCTGCTT
CTCTATCCCCCTTCTGCCACCGTGGTAGCAGAGCTACCCTTTCTGGGCTGAGTCCAGCCTCTCCCTGGGGCCAG
GACCAGCTACATAATTTGAGAGGCCAGTGTAAGTGAAGTGGGGCCCTTGTTCAAAAAATATTACAAATT
TCAAGGTGGTGACATAGAGCATAAACGAAAGGTGGGGCCCTCTGAAGGTGGGGCCTGTGTGACTGCTCGGCTG
TGGGTCTAGACTGACCTGGGCTTTGGAGCCCTTCCCTTCCACCTCCTCAGCAGCTTCTGGAAGCCTCTGTCTC
TTGTTGGTTCTGTCTGCCTCTCACAGTCATCCATCTTATCCATTGGGTTTTAAATATGCCCAAATGTCTCCAAT
TGAGAAATGCTTCCATTTCTCCCTTCTGCTCTGCCACAGTGTCTTGGGTCTGTAAAGGTTCTCACCGAGGGCC
CCAGTGACCTCACATTGCTTTATTTATGCCCATTTTTTCAAGCACTTTTCTTGCCACTGCTGCCCCTTTTGCC
CCTGGAATGGCTGGAGCCTTGTTCAGGACGTCATTCTCTGCGGTTTTTGTCTTGCCTCTGGCTACTCCCT
CTGGTTTTATTTGATCATTATTCCATAGTTTTTTAGTTATTATTCTGCTTTAACTCTATTTGGAGAAAAATTTAG
TCTTTTTTTTCAATTCTAAATATTTTTCCGGAATGGTAGAATAGTACATTTTGCTTTAGAATCTTACCTTTCTT
TCAACCAGTACCCTCTTCTGTTTAGGTCAAAGGGTACAAAGATGCAGTTATTTTGGGTGAGTAAGTCTCAAGAT
CTAATGTACACCATAAGGAGTGCAGTATCATATTGTGCACTGGGAGTAGATTTAGGAATCTCAGCACACACAGA
ATAAAGGACGGTAACTGTGTGAGATGCTGGACATGTAATTTACTTGACTGTAGTAATCACTTCACTATGTGTATG
TAGATCAGAGCATCATGCTGTACACCTTATACAATAAATCCCTCTCCCCAAATCAAAAAAAAAAAAAAAAAA

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FIGURE 5694

MKAVVQRVTRASVTVGGEQISAIGRGICVLLGISLEDTQKELEHMVRKILNLRVFEDESGKHWSKSVMDKQYEIL
CVSQFTLQCVLKGNKPDFHLAMPTEQAEGFYNSFLEQLRKTYRPELIKDGKFGAYMQVHIQNDGPVTIELESPAP
GTATSDPKQTDSSRSVSQAGVQWRDLRSLQAPPPGFMPEFFCLSLPSSWDYRHVPPCPANFFVFF

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FIGURE 5695

CTCTCGGCTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTTCTTCGGTCGTCCTGAATCCGGGTTTCATCCGACACC
AGCTGCCTCCACCATGCTGCCGAAGTTCGACCCGAACGAGATCAAAGTCGTATACCTGAGGTGCACCGGAGGTGA
AGTCGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTGATGACAT
TGCCAAGGCAATGGGTGACTGGAAGGGCCTGAGGATTACAGTGAAACTAACCATTTCAGAACAGACAGGCCCAGAT
TGAGGTGGTGCCCTTCTGCCTCTGCCATGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGAAACAGAA
AAACATTAAACACAGTGGGAATATCACTTTTGATGAGATCGTCAACATTGCTCGACAGATGCGGCACCAATCCTT
AGCCAGAGAACTCTCTGGAACCACTAAAGAGATCCTGGGGACTGCCCAGTCTGTGGGCTGTAATGTTGATGGCCG
CCACCCTCATGACATCATAGATGACATCAACAGTGGTGCTGTAGAATGCCCAGCTAGTTAAGCACAAAGGAAAAT
ATTTCAATAAAAGGATCATTGACAA

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FIGURE 5696

ATGAAAGTCGAGCTGTGCAGTTTCAGCGGATACAAGATCTACTCCGGACACAGGAGGCGCTACGCCAGGACCGAA
GGGAAGGTTTTCCGGTTTCTTAATTCAAAATGCGAAGGGATCAGAAACCTGAAGTTAGAAAGGCTCAAAGAGAAC
AAGCTATCAGGGCTGCTAAGGAAGCAAAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAG
GCACCTACAAAGGCAGCACCTAAGCAAAAGACTGTGAAGGTTGTGAAAGTTTCAGCTCCCCAAGTTGGTGAAAA
CGCTTAA

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FIGURE 5697

MKVELCSFSGYKIYSGHRRRYARTEGKVFRFLNSKCEGIRNLKLERLKENKLSGLLRKQKKAKQASKKTAMAAK
APTKAAPKQKTVKVKVSAPQVGGR

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FIGURE 5698

AAGTGCTGGTGCCCTCTGCCGCTGCTCCCGTCTCTTTGGTTACGCTCGTCAGCCGGTCGGCCGCCGCTCCAGCC
GTGTGCCGCTATGGGAGTCCCGGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGTCCATCATAGTCAACTGCGT
GGAAGAGAAGCCAAAAGAATGCAATGGTGTAAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAATGATGTGGA
GTTTGATAATCTGTATTGATATGAATGGAATCATCCATCCCTGTACTCATCTGAAGACAAACCAGCACCAAA
AAATGAAGATGAAATGATGGTTGCAATTTTTGAGTACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACT
TCTCTACATGGCAATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAGGAGGTTTCAGGGCATC
AAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTGGCAAAAGGTGGCTTTCTTCC
TCCAGAAGAAATAAAAGAAAGATTTGACAGCAACTGTATTACACCAGGAACTGAATTCATGGACAATCTTGCTAA
ATGCCCTTCGCTATTACATAGCTGATCGTTTTAAATAATGACCCTGGGTGGAAAAATTTGACAGTTATTTTATCTGA
TGCTAGTGCTCCTGGTGAAGGAGAACATAAAATCATGGATTACATTAGAAGGCAAAGAGCCAGCCTAACCATGA
CCCAAATACTCATCATTGTTTATGTGGAGCAGATGCTGATCTCATTATGCTTGGCCTTGCCACACATGAACCGAA
CTTTACCATTATTAGAGAAGAATTCAAACCAAACAAGCCCAAACCATGTGGTCTTTGTAATCAGTTTGGACATGA
GGTCAAAGATTGTGAAGGTTTGCCAAGAGAAAAGAAGGGAAAGCATGATGAACTTGCCGATAGTCTTCCTTGTC
AGAAGGAGAGTTTATCTTCCTTCGGCTTAATGTTCTTCGTGAGTATTTGGAAAGAGAACTCACAAATGGCCAGCCT
ACCATTACATTTGATGTTGAGAGGAGCATTGATGACTGGGTTTTCATGIGCTTCTTTGTGGGAAATGACTTCCT
CCCTCATTTGCCATCGTTAGAGATTAGGGAAAATGCAATTGACCGTTTGGTTAACATATACAAAAATGTGGTACA
CAAACTGGGGGTTACCTTACAGAAAGTGGTTATGTCAATCTGCAAAGAGTACAGATGATCATGTTAGCAGTTGG
TGAAGTTGAGGATAGCATTTTTTAAAAGAGAAAGGATGATGAGGACAGTTTTAGAAAGACGACAGAAAGAAAAAAG
AAAGAGAATGAAGAGAGATCAACCAGCTTTCACTCCTAGTGAATATTAACCTCCTCATGCCCTTGGGTTCAAGAAA
TTCACCAGGTTCTCAAGTAGCCAGTAATCCGAGACAAGCAGCCTATGAAATGAGGATGCAGAATAACTCTAGTCC
TTCGATATCTCCTAATACGAGTTTCACATCTGATGGCTCCCCGTCTCCATTAGGAGGAATTAAGCGAAAAGCAGA
AGACAGTGACAGTGAACCTGAGCCAGAGGATAATGTGAGGTTATGGGAAGCTGGCTGGAAGCAGCGGTACTACAA
GAACAAATTTGATGTGGATGCAGCTGATGAGAAATTCGCTCGGAAAGTTGTGCAGTCGTACGTTGAAGGACTTTG
CTGGGTTCTTAGATATTATTACCAGGGCTGTGCTTCTGGAAGTGGTATTATCCATTTCAATTATGCACCATTTCG
TTCAGACTTTGAAGGCATTGCAGACATGCCATCTGATTTTTGAGAAGGGTACGAAACCGTTTAAACCACTAGAACA
ACTTATGGGGGTATTTCCAGCTGCAAGTGGTAATTTTCTACCTCCATCATGGCGGAAGCTCATGAGTGATCCTGA
TTCTAGTATAAATTGACTTCTATCCTGAAGATTTTGCTATTGATTTGAATGGGAAGAAATATGCATGGCAAGGTGT
TGCTCTCTTGCCATTCTGGATGAGCGAAGGCTACGAGCTGCCCTAGAAGAGGTATACCCAGACCTCACTCCAGA
AGAGACCAGAAGAAACAGCCTTGAGGTTGATGTCTTATTTGTGGGGAACATCACCCACTCCATGACTTCATTTT
AGAGCTGTACCAGACAGGTTCCACAGAGCCAGTGGAGGTACCCCTGAACTATGTATGGGATTCAAGGAAAGTT
TTCTTTGGATGAAGAAGCCATTCTTCCAGATCAAATAGTATGTTCTCCTGTTCTATGTTAAGGGATCTGACACA
GAACACTGTAGTCAGTATTAATTTTAAAGACCCACAGTTTGCTGAAGATTACATTTTAAAGCTGTAATGCTTCC
AGGAGCAAGAAAGCCAGCAGTACTGAAACCTAGTGACTGGGAAAAATCCAGCAATGGACGGCAGTGGAAGCC
TCAGCTTGGCTTTAACCCTGACCGGAGGCTGTGCACCTGGATCAGGCAGCCTTCAGGACTTTGGGCCATGTGAT
GCCAAGAGGCTCAGGAACCTGGCATTACAGCAATGCTGCACCACCACCTGTGACTTACCAGGGGAACTTATACAG
GCCGCTTTTGAGAGGACAAGCCAGATTCCAAAACCTATGTCAAATATGAGGCCCCAGGATTCTTGCGGAGGTCC
TCCTCCCCCTTTCCAGCAGCAAAGGTTTGACAGAGGCGTTGGGGCTGAACCTCTGCTCCCATGGAACCGGATGCT
GCAAACCCAGAATGCAGCCTTCCAGCCAAACAGTACCAGATGCTAGCTGGGCTGGTGGGTATCCACCCAGACG
AGATGATCGTGGAGGGAGACAGGGATATCCAGAGAAGGAAGGAAATACCCCTTGCCACCACCCCTCAGGAAGATA
CAATTGGAATTAAGCTTTTGTAAGCTTTCCCAAATCCTTTTCATCATTCTACAGTTTTATGCTATTGTGGAAAG
ATTTCTTTCTCAAGTAGTAGTTTTTAATAAACTACAGTACTTTGTGTATTTCTTTTAACTGTGTATATTTCTAC
TGATCTGATCTCACTGTTTATGTTGCTTTCCAAAGATGTATGTTGCATAATACAGTGGATCTGAATTTATTATTG
CTTATAAAACACATTTGATGGAATAGGAGTACTGGTTTTTCATAATGGTTAAAAATGAAACCAGCTGTGGATTTT
AAAACACAGTGTATTCTAGATCATCTAAGATCCATGCTGATTTTTATTGCACAAGAATTAGGTTTGAACCTTTGA
GCTGGAACCTCAGCAAACTAGAGTATATATTGTTTCAGTATTTCTTTGGAAACATTTCAATTAATGTACTTGTCTTA
CAGAAATTTCTGAACTTTAGTAAAAAAAATAAAGTTAAACTTTTAAACTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5699

MGVPAFFRWLSRKYPSSIIVNCVEEKPKECNGVKIPVDASKPNPNDVEFDNLYLDMNGIIHPCTHPEDKPAPKNED
EMMVAIFEYIDRLFSIVRPRRLLYMAIDGVAPRAKMNQORSRRFRASKEGMEAAVEKQORVREEILAKGGFLPPEE
IKERFDSNCITPGTEFMDNLAKCLRYIIADRLNNDPGWKNLTVILSDASAPGEGEHKIMDYIRRQRAQPNHDPNT
HHCLCGADADLIMLGATHEPNFTIIREEFKPNKPKPCGLCNQFGHEVKDCEGLPREKKGKHDELADSLPCAEGE
FIFLRLNVLREYLERELTMASLPFTFDVERSIDDWVFMCFVVGNDFLPHLPSLEIRENAIDRLVNIYKNVVHKTG
GYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKDDSDSFRRRQKEKRKRMKRDQPAFTPSGILTPHALGSRNSPG
SQVASNPRQAAYEMRMQNNSSPSISPNTSFTSDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYKKNKF
DVDAADEKFRRKVVSQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGIADMPSDFEKGTKPFKPLEQLMG
VFPAASGNFLPPSWRKLMSDPDSSIIDFY PEDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVY PDLTPEETR
RNSLGGDVLFVKGHHPLHDFILELYQTGSTEPVEVPPELCHGIQGFSLDEEAILPDQIVCSPVPMRLDLTQNTV
VSINFKDPQFAEDYIFKAVMLPGARKPAAVLKPSDWEKSSNGRQWKPLGFNRRRPFVHLDQAAFRTLGHVMPRG
SGTGIYSNAAPPPVITYQGNLYRPLLRGQAQIPKLMSNMRPQDSWRGPPPLFQQQRFDRGVGAEP LLPWNRMLQTQ
NAAFQPNQYQMLAGPGGYPPRRDDRGRQGYPREGRKYPLPPP SGRYNWN

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FIGURE 5700

CCCGCCCACTTCCAAC TACCGCCTCCGGCCTGCCAGGGAGAGAGAGGGAGTGGAGCCCAGGGAGAGGGAGCGCG
AGAGAGGGAGGGAGGAGGGGACGGTGCTTTGGCTGACTTTTTTTTAAAAGAGGGTGGGGGTGGGGGTGATTGCT
GGTCGTTTGTGTGGCTGTTAAATTTTAAACTGCCATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAGATGG
AAGGGCACGAGCCGTCCTGACTGGAGCAGCTACTATGCAGAGCCCCGAGGGCTACTCCTCCGTGAGCAACATGAACG
CCGGCCTGGGGATGAACGGCATGAACACGTACATGAGCATGTTCGGCGGCCCGCCATGGGCAGCGGCTCGGGCAACA
TGAGCGCGGGCTCCATGAACATGTCGTTCGTACGTGGGCGCTGGCATGAGCCCCGTCCCTGGCGGGGATGTCCCCG
GCGCGGGCGCCATGGCGGGCATGGGCGGCTCGGCCGGGGCGGCCGGCGTGGCGGGCATGGGGCCGCACTTGAGTC
CCAGCCTGAGCCCCGTCCGGGGGAGGCGGGCCGGGGCCATGGGCGGCCCTGGCCCCCTACGCCAACATGAACTCCA
TGAGCCCCATGTACGGGCAGGCGGGCCTGAGCCGCGCCCGCGACCCCAAGACCTACAGGCGCAGCTACACGCACG
CAAAGCCGCCCTACTCGTACATCTCGTTCATCACCATGGCCATCCAGCAGAGCCCCAACAAAGATGCTGACGCTGA
GCGAGATCTACCACTGGATCATGGACCTCTTCCCCTTCTACCGGCAGAACAGCAGCGCTGGCAGAACTCCATCC
GCCACTCGCTCTCCTTCAACGACTGTTTTCCTGAAGGTGCCCCGCTCGCCCGACAAGCCCGGCAAGGGCTCCTTCT
GGACCCTGCACCCTGACTCGGGCAACATGTTTCGAGAACGGCTGCTACCTGCGCCGCCAGAAGCGCTTCAAGTGCG
AGAAGCAGCTGGCGCTGAAGGAGGCCGCGAGGCGCCGCGGCCTCCGAGACTCCGGCGGGCACCAGTTCGCTCACTCGAGCG
CCTCCCCGTGCCAGGAGCACAAGCGAGGGGGCCTGGGAGAGCTGAAGGGGACGCCGGCTGCGGCGCTGAGCCCCC
CAGAGCCGGCGCCCTCTCCCGGGCAGCAGCAGCAGGCGCGGCCACCTGCTGGGCCCCGCCACCACCCGGGCC
TGCCGCTGAGGCCACCTGAAGCCGGAACACCACTACGCCTTCAACCACCGTTCTCCATCAACAACCTCATGT
CCTCGGAGCAGCAGCACCACCACAGCCACCACCACCAACCCACAAAATGGACCTCAAGGCCTACGAACAGG
TGATGCACTACCCCGGTACGGTTCCTCCATGCCTGGCAGCTTGCCATGGGCCCCGCTCACGAACAAAACGGGCC
TGGACGCCTCGCCCCTGCCCGCAGATACCTCCTACTACAGGGGGTGTACTCCCGGCCATTATGAACTCCTCTT
AAGAAGACGACGGCTTCAGGCCCCGCTAACTCTGGCACCCCGGATCGAGGACAAGTGAGAGAGCAAGTGGGGGTG
GAGACTTTGGGGAGACGGTGTTCAGAGACGCAAGGGAGAAGAAATCCATAACACCCCCACCCCAACACCCCCAA
GACAGCAGTCTTCTTCACCCGCTGCAGCCGTTCCGTCCCAACAGAGGGCCACACAGATACCCACGTTCTATAT
AAGGAGGAAAACGGGAAAGAATATAAAGTTAAAAAAAGCCTCCGGTTTCCACTACTGTGTAGACTCCTGCTTCT
TCAAGCACCTGCAGATTCTGATTTTTTTTGTGTGTGTGTCTCCTCCATTGCTGTTGTGTCAGGGAAGTCTTACT
TAAAAAATAAATAAATTTTGTGAGTGACTCGGTGTAAACCATGTAGTTTTTAACAGAACCAGAGGGTGTACTA
TTGTTTAAAAACAGGAAAAAATAATGTAAGGGTCTGTTGTAAATGACCAAG

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FIGURE 5701

TCGCGTTCTGGGCCCCGGAGTCCGAGACAGGCGGGGACCCCGGCAGCTCCCGGTGCTATCTCTGAGCGGGTTCCG
AGCCCCACTTCCGGGCGGTGAGAATTAGCCTCAGAGCGCCGAGCAACGACGCGCCGGGGACCTCCCGCCCATGAG
GCCGGAAGGGGCGGGGAGAACGCTGCGGAATGGTCCCTGGGCGCAACGTCATTTCCGCGTACGGGGGAGGGCGGG
CCTGGAGTCTGAGCCGGCGCCGCTCAGTGTGAGGTGGTTTCTGCGGGTGAGGCTGGCGCCCGTACCATGAGCGAG
GCGGACGGGCTGCGACAGCGCCGGCCCCCTGCGGCCGAGGTGCTCACAGACGATGATGGCCAGGCCCGGAGGCT
AAGGACGGCAGCTCCTTTAGCGGCAGAGTTTTCCGAGTGACCTTCTTGATGCTGGCTGTTTTCTCTCACC GTTCCC
CTGCTTGGAGCCATGATGCTGCTGGAATCTCCTATAGATCCACAGCCTCTCAGCTTCAAAGAACCCCGCTCTTG
CTTGGTGTCTGTCATCCAAATACGAAGCTGCGACAGGCAGAAAGGCTGTTTGAAAATCAACTTGTGGACCGGAG
TCCATAGCACATATTGGGGATGTGATGTTTACTGGGACAGCAGATGGCCGGGTGCTAAAACCTTGAAAATGGTGAA
ATAGAGACCATTGCCCGGTTTGGTTGGGGCCCTTGCAAAACCCGAGATGATGAGCCTGTGTGTGGGAGACCCCTG
GGTATCCGTGCAGGGCCCAATGGGACTCTCTTTGTGGCCGATGCATACAAGGGACTATTTGAAGTAAATCCCTGG
AAACGTGAAGTGAACTGCTGCTGTCTCCGAGACACCCATTGAGGGGAAGAACATGTCCTTTGTGAATGATCTT
ACAGTCACTCAGGATGGGAGGAAGATTTATTTACCGATTCTAGCAGCAAATGGCAAAGACGAGACTACCTGCTT
CTGGTGATGGAGGGCACAGATGACGGGCGCCTGCTGGAGTATGATACTGTGACCAGGGAAAGTAAAAGTTTTATTG
GACCAGCTGCGGTTCCCGAATGGAGTCCAGCTGTCTCCTGCAGAAGACTTTGTCTGCTGGTGGCAGAAACAACCATG
GCCAGGATACGAAGAGTCTACGTTTCTGGCCTGATGAAGGGCGGGGCTGATCTGTTTGTGGAGAACATGCCTGGA
TTTCCAGACAACATCCGGCCAGCAGCTCTGGGGGTACTGGGTGGGCATGTGACCATCCGCCCTAACCTGGG
TTTTCCATGCTGGATTTCTTATCTGAGAGACCCTGGATTAAAAGGATGATTTTAAAGCTCTTTAGTCAAGAGACG
GTGATGAAGTTTGTGCCGCGGTACAGCCTCGTCCTAGAACTCAGCGACAGCGGTGCCTTCCGGAGAAGCCTGCAT
GATCCCGATGGGCTGGTGGCCACCTACATCAGCGAGGTGCACGAACACGATGGGCACCTGTACCTGGGCTCTTTC
AGGTCCCCCTTCTCTGCAGACTCAGCCTCCAGGCTGTTTAGCCCTCCAGATAGCTGCCCTGCCACGCAGGCC
AGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGTGGACACAGTCGTGGTTCAAGTGTCCACAT
GCACCTGTTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTCATTCCCTCGAGGATGCCCCGGGCCCCACCTGGGCTT
GTCTTTCTGTTTAGAGGGAAGTGTAACATATCTGCCATGAGGAACATAAATTCATGTAAAGCCATTTTCTCTTAA
ACAAAACAAAACCTTTCTAAGTACAGTCATTCTCTAGGATTTGGGAAGCTCCTTGCACTTGGAACAGGGCTCAGGT
GGGTGGAGCAGTAAGGCACTACCCAGAGAGCTTGCTGCTGCGGCCCTGTCTGCGGCCCTCAAAGTTCTTCTTTAC
TATATATAACGTGCGGTCATACCTTTCTTCGTTGTGGTGGGGATGGAAGAGCAGAGGGAGCATGGCCCAGGGGTG
TTGAGGCCAGCGGTGAGAGCCGTGTTAGCCAAGACATGGAAGTGTGTTCTCAAGGGTTATGTGGGGCGTGGGCTC
TCCATAGTGTGTATGAAAAGCTTGTGACTCTAGCGGCTCAGAGAGGACTTTGCTGGGTTTCTTTCTGTGAATAT
CTCCGTGCTGACCATGCTGGAATTGGATGATTCTGCAATTCGGGACCTACTGCAGGGGTCCGTTTAGTAACGTCT
TGTCTGTGATCTTTGTTCTTGACCTCTAGACCCCAAGATGTGAACAGTGCACGTGTTAATGTCATCTTTGCTCAT
GTGTTATAAGCCCCAAGTTGCTGTATATTTTACAAGTATGTCTACACACTGGTCATGATTTTGATAATAAATAA
CGATAAATCG

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FIGURE 5702

MSEADGLRQRRPLRPQVVTDDDGQAPEAKDGSSFSGRVFRVTFMLLAVSLTVPLLGAMMLESPIDPQPLSFKEP
PLLLGVLHPNTKLRQAERLFENQLVGPEIAHIGDVMFTGTADGRVVKLENGEIIETIARFGSGPCKTRDDEPVCG
RPLGIRAGPNGTLFVADAYKGLFEVNPWKREVKLLLSSETPIEGKNMSFVNDLTVTQDGRKIYFTDSSSKWQRRD
YLLLVMEGTDDGRLLLEYDTVTREVKVLLDQLRFPNGVQLSPAEDFVLVAETTMARIRRVYVSGLMKGGADLFVEN
MPGFPDNIRPSSSGGYWGMSTIRPNPGFSMLDFLSERPWIKRMIKLF SQETVMKFVPRYSLVLELSDSGAFRR
SLHDPDGLVATYISEVHEHDGHL YLGSFRSPFLCRSLQAV

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FIGURE 5703

GTGGGGTCGTATCCCGCGGGTGGAGGCCGGGGTGGCGCCGGCCGGGGCGGGGGAGCCCCAAAAGACCGGCTGCCGC
CTGCTCCCCGAAAAGGGCACTCGTCTCCGTGGGTGTGGCGGAGCGCGCGGTGCATGGAATGGGCTATGTGAATG

AAAAAAGGTATCCGTTATGAACTTCCAGAAAAACGAGCTACATTTTTTCAGCAGCCGCAGCACGGTCCTTGCAA
ACAAGGATGAGAAAAATATCCAACCACGGGAGCCTGCGGGTGGCGAAGGTGGCATACCCCCTGGGGCTGTGTGTG
GGCGTGTTTCATCTATGTTGCCTACATCAAGTGGCACCGGGCCACCGCCACCCAGGCCTTCTTCAGCATCACCAGG
GCAGCCCCGGGGGCCCCGTGGGGTCAGCAGGCCACAGCCCCCTGGGGACAGCTGCAGACGGGCACGAGGTCTTC
TACGGGATCATGTTTGATGCAGGAAGCACTGGCACCCGAGTACACGTCTTCCAGTTCACCCGGCCCCCAGAGAA
ACTCCACGTTAACCACGAAACCTTCAAAGCAGTGAAGCCAGGTCTTCTGCCTATGCTGATGATGTTGAAAAG
AGCGCTCAGGGAATCCGGGAACCTACTGGATGTTGCTAAACAGGACATTCCGTTCGACTTCTGGAAGGCCACCCCT
CTGGTCTCTAAGGCCACAGCTGGCTTACGCCTGTTACCTGGAGAAAAGGCCAGAAAGTTACTGCAGAAGGTGAAA
GAAGTATTTAAAGCATCGCCTTTTCTTGTAAGGGGATGACTGTGTTTCCATCATGAACGGAACAGATGAAGGCGTT
TCGGCGTGGATCACCATCAACTTCTGACAGGCAGCTTGAAAACCTCCAGGAGGGAGCAGCGTGGGCATGCTGGAC
TTGGGCGGAGGATCCACTCAGATCGCCTTCTGCCACGCGTGGAGGGCACCCCTGCAGGCCTCCCCACCCGGCTAC
CTGACGGCACTGCGGATGTTTAAACAGGACCTACAAGCTCTATTCTACAGCTACCTCGGGCTCGGGCTGATGTCG
GCACGCTGGCGATCCTGGGCGGCGTGGAGGGGCAGCCTGCTAAGGATGGAAAGGAGTTGGTCAGCCCTTGCTTG
TCTCCAGTTTCAAAGGAGAGTGGGAACACGCAGAAGTACGTACAGGGTTTCAGGGCAGAAAGCAGCGGCAAGC
CTGCACGAGCTGTGTGCTGCCAGAGTGTGAGAGTCTTCAAACAGAGTGCACAGGACGGAGGAAGTGAAGCAT
GTGGACTTCTATGCTTTCTCCTACTATTACGACCTTGCAGCTGGTGTGGGCCCTCATAGATGCGGAGAAGGGAGGC
AGCCTGGTGGTGGGGGACTTCGAGATCGCAGCCAAGTACGTGTGTGCGACCTGGAGACACAGCCGCAGAGCAGC
CCCTTCTCATGCAITGGACCTCACCTACGTACGCTGCTACTCCAGGAGTTCGGCTTTCCCAGGAGCAAAGTGCTG
AAGCTCACTCGAAAAATTGACAATGTTGAGACCAGCTGGGCTCTGGGGGCCATTTTTTCATTACATCGACTCCCTG
AACAGACAGAAGAGTCCAGCCTCATAGTGGCCGAGCCATCCCTGTCCCCGTGACGAGTGTCTGTGTGTCTGCATA
AACCCTCCTGTCTGGACGTGACTTCATCTGAGGAGCCACAGCACAGGCCGTGCTGGCACTTTCTGCACACTGG
CTCTGGGACTTGCAAGAGCCTGGTGTGCTGCCCTGGCATCAGCCTCTTCCAGTCACATCTGGCCAGAGGGCTGTCT
GGACCTGGGCCCTGTCAATGCCACCTGTCTGCCTGGGCTCCAAGTGGGCAGGACCAGGACAGAACCACAGGCAC
ACACTGAGGGGGCAGTGTGGCTCCCTGCCTGTCCCATCCCCATGCCCCGTCCGCGGGGCTGTGGCTGCTGCTGTG
CATGTCCCTGCGATGGGAGTCTTGTCTCCAGCCTGTGAGTTTCTTCCCCAGGGCAGAGTCCCCCTTCTGCAAG
AGTCTGGGAGGCGGTGCAGGCTGTCTGGCTGCTCTGGGGAAGCCGAGGGACAGCCATAACACCCCCGGGACAGT
AGGTCTGGGCGGCACCACTGGGAACCTCTGGACTTGAGTGTGTTTGCTCTTCTTGGGTATGAATGTGTGAGTTCA
CCCAGAGGCCTGCTCTCCTCACACATTGTGTGGTTTGGGGTTAATGATGGAGGGAGACACCTCTTCATAGACGGC
AGGTGCCCACCTTTAGGGAGTCTCCAGCATGGGCGGATGCCGGGCATGAGCTGCTGTAAACTATTTGTGGCTG
TGCTGCTTGAGTGACGTCTCTGTGCTGTGGGTGCCAAGTGCTTGTGTAGAACTGTGTTCTGAGCCCCCTTTTCT
GGACACCAACTGTGTCTGTGAATGTATCGCTACTGTGAGCTGTTCCCGCCTAGCCAGGGCCATGTCTTAGGTGC
AGCTGTGCCACGGGTCAGCTGAGCCACAGTCCAGAACCAAGCTCTCGGTGTCTCGGGCCACCATCCGCCACCT
CGGGCTGACCCACCTCCTCCATGGACAGTGTGAGCCCCGGGCGTGCATCCTGCTCAGTGTGGCGTCAGTGTGCG
GGGCTGAGCCCCCTTGAAGTGTGCTTCAAGTGTACAGTGGCGGCACGAGCTGAACCTCATGTGTTCCACTCCCCA
ATAAAAGGTTGACAGGGGCTTCTCCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5704

MKKGIRYETSRKTSYIFQQPQHGPWQTRMRKISNHGSLRVAKVAYPLGLCVGVFIYVAYIKWHRATATQAFFSIT
RAAPGARWGQQAHSPLGTAADGHEVFYGYMFDAGSTGTRVHVVFQFTRPPRETPTLTHETFKAVKPGLSAYADDVE
KSAQGIRELLDVAQDIPFDLFWKATPLVLKATAGLRLLPGEKAQKLLQKVKEVFKASPFLVGDDCVSIMNGTDEG
VSAWITINFLTGSLKTPGGSSVGMLDLGGGSTQIAFLPRVEGTLQASPPGYLTALRMFNRTYKLYSYSYLGGLM
SARLAILGGVEGQPAKDGLVSPCLSPSFKGEWEHAEVTVRVSGQAAAASLHELCAARVSEVLQNRVHRTEEVK
HVDFYAFSYYYDLAAGVGLIDAEKGGSLVVGDFEIAAKYVCRTLETQPQSSPFSCMDLTYVSLLLQEFGFPRSKV
LKLTRKIDNVETSWALGAIFHYIDSLNRQKSPAS

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FIGURE 5705A

GAGCAGCTGCACCATCCCGGCGTTCGCGTGTGCCGCGCTTTCTCTCCATCTCTTTTCTCCGCTCCGCCGG
CGCGATGGCGAAGCCGCTGACGGACAGCGAGAAGCGGAAGCAGATCAGCGTGCGCGGCTGGCGGGGCTAGGCGA
CGTGGCCGAGGTGCGGAAGAGCTTCAACCGGCACTTGCACTTTCACGCTGGTCAAGGACCGCAATGTGGCCACGCC
CCGCGACTACTTCTTCGCGCTGGCGCACACGGTGCGGACCACCTCGTGGGCGCTGGATCCGCACGCAGCAGCA
CTACTACGAGCGCGACCCCAAGCGCATTTATTATCTTTCCCTGGAATTCTACATGGGTGCGACGCTGCAGAACAC
GATGGTGAACCTGGGCCTTCAGAATGCCTGCGATGAAGCCATCTATCAGTTGGGGTTAGACTTGGAGGAACCTCGA
GGAGATAGAAGAAGATGCTGGCCTTGGGAATGGAGGCTGGGGAGGCTGGCAGCGTGTTCCTTGACTCAATGGC
TACCTTGGGCTTGGCAGCATACGGCTATGGAATCCGCTATGAATTTGGGATTTTAAACCAGAAGATTGTCAATGG
CTGGCAGGTAGAGGAGGCCGATGACTGGCTGCGCTACGGCAACCCCTGGGAGAAAGCGCGGCTGAGTATATGCT
TCCCGTGCACTTCTACGGACGCGTGGAGCACACCCCGACGGCGTGAAGTGGCTGGACACACAGGTGGTGTGGC
CATGCCCTACGACACCCCACTGCGCGCTACAAGAACAACACCGTCAACACCATGCGGCTGTGGTCCGCCAAGGC
TCCCAACGACTTCAAGCTGCAGGACTTCAACGTGGGAGACTACATCGAGGCGGTCTGGACCGGAACCTGGCTGA
GAACATCTCCAGGGTCTGTATCCAAATGATAACTTCTTTGAGGGGAAGGAGCTGCGGCTGAAGCAGGAGTACTT
CGTGGTGGCCGCCACGCTCCAGGACATCATCGCGCTTCAAGTCGTCCAAGTTCGGCTGCCGGGACCCTGTGAG
AACCTGTTTCGAGACGTTCCAGACAAGGTGGCCATCCAGCTGAACGACACCCACCCCGCCCTCTCCATCCCTGA
GCTCATGCGGATCCTGGTGGACGTGGAGAAGGTGGACTGGGACAAGGCTGGGAAATCACGAAGAAGACCTGTGC
ATACACCAACCACACTGTGCTGCCTGAGGCTTGGAGCGCTGGCCCGTGTCCATGTTTGAGAAGCTGCTGCCGCG
GCACCTGGAGATAATCTATGCCATCAACCAGCGGCACCTGGACCAGTGGCCGCGCTGTTTCCCGCGCATGTGGA
CCGCTGCGCAGGATGTCTGTGATCGAGGAGGGGACTGCAAGCGGATCAACATGGCCACCTGTGTGTGATTGG
GTCCCATGCTGTCAATGGTGTGGCGAGGATCCACTCGGAGATCGTGAAACAGTCGGTCTTTAAGGATTTTTATGA
ACTGGAGCCAGAGAAGTTCAGAATAAGACCAATGGCATACCCCCCGCCGCTGGCTGCTGTGTGCAACCCGGG
GCTGGCCGATACCATCGTGGAGAAAATTGGGGAGGAGTTCTGACTGACCTGAGCCAGCTGAAGAAGCTGCTGCC
GCTGGTCAGTGACGAGGTGTTTCATCAGGGACGTGGCCAAGGTCAAACAGGAGAACAAGCTCAAGTTCTCGGCCTT
CCTGGAGAAGGAGTACAAGGTGAAGATCAACCCCTCCTCCATGTTTCGATGTGCATGTGAAGAGGATCCACGAGTA
CAAGCGGCAGCTGCTCAACTGCCTGCACGTGCTACCCCTGTACAATCGAATCAAGAGAGACCCGGCCAAGGCTTT
TGTGCCCAGGACTGTTATGATTGGGGGCAAGGCAGCGCCCGGTTACCACATGGCCAAGCTGATCATCAAGTTGGT
CACCTCCATCGGCGACGTCGTCAATCATGACCCAGTTGTGGGTGACAGGTTGAAAGTGATCTTCTGGAGAACTA
CCGTGTGCTCTTGGCTGAGAAAGTGATCCCGGCCGCTGATCTGTGCGCAGCATCTCCACTGCAGGCACCGAGGC
CTCAGGCACAGGCAACATGAAGTTCATGCTCAACGGGGCCCTCACCATCGGCACCATGGACGGCGCCAACGTGGA
GATGGCCGAGGAGGCCGGGGCCGAGAACCTCTTCATCTTCGGCTGCGGGTGGAGGATGTCGAGGCCTTGGACCG
GAAAGGGTACAATGCCAGGGAGTACTACGACCACCTGCCCCGAGCTGAAGCAGGCCGTGGACCAGATCAGCAGTGG
CTTTTTTTCTCCCAAGGAGCCAGACTGCTTCAAGGACATCGTGAACATGCTGATGCACCATGACAGGTTCAAGGT
GTTTGCAGACTATGAAGCCTACATGCAGTGCCAGGCACAGGTGGACCAGCTGTACCGGAACCCCAAGGAGTGGAC
CAAGAAGGTATCAGGAACATCGCTGCTCGGGCAAGTTCTCCAGTGACCGGACCATCACGGAGTATGCACGGGA
GATCTGGGGTGTGGAGCCCTCCGACCTGCAGCTTCAGCACCTGCCCCACCCAGAGTGGGAGTCAGGTGGAGCCAC
CTGCTGGGCTCCCCAGAACTTTGCACACATCTTGCTATGTATTAGCCGATGTCTTTAGTGTGAGCCTCTGGAT
TCTGGGGTCTGGGCCAGTGGCCATAGTGAAGCCTGGGAATGAGTGTTACTGCAGCATCTGGGCTGCCAGCCACAG
GGAAGGGCCAAGCCCCATGTAGCCCCAGTCATCTGCCCAGCCCTGCCTCCTGGCCATGCCGGGAGGGGTCCGAT
CCTCTAGGCATCGCCTTCACAGCCCCCTGCCCCCTGCCCTCTGTCTGGCTCTGCACCTGGTATATGGGTCTAGG
ACCCAGATGGGGCTTTCCCTTTGTAGCCATCCAATGGGCATTGTGTGGGTGCTTGGAAACCCGGGATGACTGAGGG
GGACACTGGAGTGGGTGCTTGTGCTGCTGTCTCAGAGGCCTTGGTCAGGATGAAGTTGGCTGACACAGCTTAGC
TTGGTTTTGCTTATTCAAAAGAGAAAATAACTACACATGGAAATGAACTAGCTGAAGCCTTTTCTGTTTTAGC
AACTGAAAATTGTACTTGGTCACTTTTGTGCTTGAGGAGGCCATTTTCTGCCTGGCAGGGGGCAGGTCTGTGCC
CTCCGCTGACTCCTGTGTGCTGAGGTGCATTTCTGTTGTACACACAAGGGCCAGGCTCCATTCTCCCTCC
CTTTCCACAGTGCCACAGCCTCGTCTGGAAAAAGGACCAGGGGTCCCGGAGGAACCCATTTGTGCTGTGCTTGG
ACAGCAGGCCTGGCACTGGGAGGTGGGGGTGAGCCCTCACAGCCTTGCCCTCCCCAAGGCTGGCAACCTGCCT
CCCATTGCCCCAAGAGAGAGGGGCAGGGAACAGGCTACTGTCTTCCCTGTGGAATTGCCGAGAAATCTAGCACCTT
GCATGCTGGATCTGGGCTGCGGGGAGGCTCTTTTCTCCCTGGCCTCCAGTGCCACCAGGAGGATCTGCGCACG

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FIGURE 5705B

GTGCACAGCCCACCAGAGCACTACAGCCTTTTATTGAGTGGGGCAAGTGCTGGGCTGTGGTCGTGCCCTGACAGC
ATCTTCCCCAGGCAGCGGCTCTGTGGAGGAGGCCATACTCCCCTAGTTGGCCACTGGGGCCACCACCCTGACCAC
CACTGTGCCCCCTCATTGTTACTGCCTTGTGAGATAAAAACTGATTAAACCTTTGTGGCTGTGGTTGGC

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FIGURE 5706

AGGCTACGGTTCGCGCCAGCGGCCGCGCTATG GGGCTGAGCCGCGTGCGGGCGGTTTTCTTTGACTTGGACAAC
ACTCTCATCGACACGGCCGGGGCGAGCAGGAGAGGCATGTTGGAGGTGATAAACTCTTACAATCAAAATACCAT
TATAAAGAAGAGGCTGAAATCATCTGTGATAAAGTTCAAGTTAACTCAGCAAGGAATGTTTTCATCCTTACAAT
ACATGCATTACTGATTTAAGGACTTCACATTGGGAAGAAGCAATCCAGGAAACAAAAGGTGGTGCAGCCAATAGA
AAATTGGCTGAAGAATGTTATTTCTTTGGAAATCTACACGTTTACAGCATATGACACTAGCAGAAGACGTCAAA
GCCATGCTTACTGAACTTCGAAAGGAGGTCCGCCTACTTCTATTAAACGAATGGGGACAGACAGACCCAGAGGGAG
AAGATTGAGGCTTGTCCTGTCAGTCCTATTTTGACGCTGTTGTTGTAGGTGGAGAGCAGAGAGAGGAGAAACCA
GCACCGTCCATATTTTATTACTGCTGCAATCTTCTCGGAGTACAACCTGGGGACTGTGTGATGGTTCGGTGACACA
TTAGAAACCGACATCCAAGGAGGCCTCAATGCAGGATTGAAAGCAACAGTCTGGATCAATAAAAATGGAATAGTG
CCACTGAAGTCCTCCCCAGTTCGCATTACATGGTTTCTTCTGTGCTAGAGTTACCTGCTCTCTTACAAAGTATA
GACTGCAAAGTCAGTATGTCCACTTAAAGCACATAAAAGGGCATGATTATGAATGTTAGAATCAATTTGCTGAGT
ATGAAATAAGAAAAGTTAGGGCACTCCACTTATGATAATCCAGCTCTAAGAATAATTTTACTTATGATTTAATGG
CCAATATTTTGAAGGTCTTCCCAACCCTATTGCTTCTAAGTTGTAACAACCAACCATTGAGTGGTACTTATATCT
GAAAATTCAGATTGCATGAATTCAGGTCAAGTAGTATAGCCAGAAAATTTAAGGAAATATATTATTTGTTAGTCT
GTATCTGGAGCTTTTTAAATTATGTTATTAATCTTTTAGTATCTTGGCTGCATAATGCCAAGCAGGATTGCTTT
ACACATGGATGCACAAATGTAAGGTTTATCTTCTGGCTTAAAAATAGATATTTTTAAAAAATAGATTTTCTAAAA
CACAGATTTATGAAAGCAAGTGAATCTGGTTAATATGAAATAAGTACTAAGTCACATGCAAAATCAAGGTATTATA
TAGTGAAATTATTTTGCATATTTTGAACATAAACCATAGTTTTTGCCTACTTTGGATGTATACTTTCTTTTAT
GAACCTGATTTTCTGTATGACATTTTTTTTTTTTTTTCAGAGGGCAGGGAGCAATTTTCTATGGCATGTGACAGA
TTCTCCAGTTAGAAAAAGCTGTTAAATCAACACATGGTGCTCCTTTACCGTGACATTTTCTCACCTGTGCACA
GTGAGCCGGTAGCTTCCTTTTAGTCTTCACCTCTCAAGGAAATGTTTTTACTGTCTTTTCCCAGACACACAGTGG
GGTTGAGGGAGCTAGGCTGTTTTGCTAGAGATAATTGCAAGGCACGTGGCACTAAAAGTCATTTTCTTCTGTGG
ATCCATAAGAGGAACATTTCTCAGTGTAGCCTAACAATGCAGCCCCCAATCTGTTCTTTTTTTTTTTTGAATG
GGATCTCTGTGCGCCAGGTTGGAGTGCCATGGCACCATCTCGGCTCACTGCAACCTCTGCCTCCTGAGCTCAAGT
GATCCTCCCACCTCAGCCTCCCAAGGGTGTTGTGTGACTACAAGTACACACTACCACGCCCAGCTAATGTGTGTTT
TTGTAGAGATGGGATTTTGCCATGTTGCCAGGCTGGTCTCGAATTCCTGGATTCAAGTGATCTCCACCTCAG
CCTCCTAAAGTCCTAGGATTATAGGCATGAGCCACTGTGCCTGGCCCCCTCATCTGATAGAAAATTAGATTTTGC
TATGAGCCATTTCTGAGGGCCAATTTAATACTCGTGTGACTCTTCTTAGAGTTACCATCTGCCTTAAATTTCT
CTGTTTTTACATTTCTTGGAAATATATCATTGTTTTGCAAATTTCTATATCTAATTCAGGGTTTACCAGGAGCTT
AATAATTAATGGCTACATAGCAAGGCATCGTCTTGGAACCGGAGAATTTTCTCTAGACTATTAGGCTAGACAGTC
TCATGATTATACTAACCAACCTGGAGTAAAGTGGTTGAAAAAAGAAAGTATAAAGGGGCTTATTAAAGTGGT
TAATAAATATGA

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FIGURE 5707

MGLSRVRAVFFDLNTLIDTAGASRRGMLEVIKLLQSKYHYKEEAEIICDKVQVKLSKECFHPYNTCITDLRTSH
WEEAIQETKGAANRKLAEECYFLWKSTRLQHMTLAEDVKAMLTCLRKEVRLLLLTNGDRQTQREKIEACACQSY
FDAVVVGGEQREEKPAPSIFYCCNLLGVQPGDCVMVGDITLETDIQGGLNAGLKATVWINKNGIVPLKSSPVPHY
MVSSVLELPALLQSIDCKVSMST

6178/6881
FIGURE 5708

CTTCCTGTTGCCTTAGGGGAACGTGGCTTTCCCTGCAGAGCCGGTGTCTCCGCCTGCGTCCCTGCTGCAGCAACC
GGAGCTGGAGTCGGATCCCGAACGCACCCTCGCC**ATCG**ACTCGGCCCTCAGCGATCCGCATAACGGCAGTGCCGA
GGCAGGCGGCCCCACCAACAGCACTACGCGGCCGCTTCCACGCCCCGAGGGCATCGCGCTGGCCTACGGCAGCCT
CCTGCTCATGGCGCTGCTGCCCATCTTCTTCGGCGCCCTGCGCTCCGTACGCTGCGCCCCGCGGCAAGAATGCTTC
AGACATGCCTGAAACAATCACCAGCCGGGATGCCGCCCGCTTCCCCATCATCGCCAGCTGCACACTCTTGGGGCT
CTACCTCTTTTTCAAAATATTCTCCCAGGAGTACATCAACCTCCTGCTGTCCATGTATTTCTTCGTGCTGGGAAT
CCTGGCCCTGTCCCACACCATCAGCCCCCTTCATGAATAAGTTTTTTCCAGCCAGCTTTCCAAATCGACAGTACCA
GCTGCTCTTCACACAGGGTTCTGGGGAAAACAAGGAAGAGATCATCAATTATGAATTTGACACCAAGGACCTGGT
GTGCCTGGGCCTGAGCAGCATCGTTGGCGTCTGGTACCTGCTGAGGAAGCACTGGATTGCCAACCAACCTTTTTGG
CCTGGCCTTCTCCCTTAATGGAGTAGAGCTCCTGCACCTCAACAATGTCAGCACTGGCTGCATCCTGCTGGGCGG
ACTCTTCATCTACGATGTCTTCTGGGTATTTGGCACCAATGTGATGGTGACAGTGGCCAAGTCCTTCGAGGCACC
AATAAAATTGGTGTTTTCCCCAGGATCTGCTGGAGAAAGGCCTCGAAGCAAACAACCTTGCCATGCTGGGACTTGG
AGATGTCGTCATTCCAGGGATCTTCATTGCCTTGCTGCTGCGCTTTGACATCAGCTTGAAGAAGAATACCCACAC
CTACTTCTACACCAGCTTTGCAGCCTACATCTTCGGCCTGGGCTTACCATCTTCATCATGCACATCTTCAAGCA
TGCTCAGCCTGCCCTCCTATACCTGGTCCCCGCTGCATCGGTTTTCTGTCTGCTGGTGGCGCTGGCCAAGGGAGA
AGTGACAGAGATGTTTCAGCTACGAGTCTTCGGCGGAAATCCTGCCTCATACCCCGAGGCTCACCCACTTCCCCAC
AGTCTCGGGCTCCCCAGCCAGCCTGGCCGACTCCATGCAGCAGAAGCTAGCTGGCCCTCGCCGCCGGCGCCCGCA
GAATCCCAGCGCCATTTATGAGGAGTCAAATCCTAAGGATCCAGCGGCAGTGACAGAATCCAAAGAGGGAACAGA
GGCATCAGCATCGAAGGGGCTGGAGAAGAAAGAGAAATGATGCAGCTGGTGCCCGAGCCTCTCAGGGCCAGACCA
GACAGATGGGGGCTGGGCCACACAGGCGTGCACCGGTAGAGGGCACAGGAGGCCAAGGGCAGCTCCAGGACAGG
GCAGGGGGCAGCAGGATACCTCCAGCCAGGCTCTGTGGCCTCTGTTTCTTCTCCCTTTCTTGGCCCTCCTCTG
CTCCTCCCCACACCCTGCAGGCAAAAGAAACCCCCAGCTTCCCCCTCCCCGGGAGCCAGGTGGGAAAAGTGGGT
GTGATTTTTAGATTTTGTATTGTGGACTGATTTTGCCTCACATTAAAACTCATCCCATGGCCAGGGCGGGCCAC
TGTGCTCCTGGAA

6179/6881
FIGURE 5709

MDSALSDPHNGSAEAGGPTNSTTRPPSTPEGIALAYGSLLLMALLPIFFGALRSVRCARGKNASDMPETITSRDA
ARFP IIASCTLLGLYLFFKIFSQEYINLLLSMYFFVLGILALSHTISPFMNKFFPASFPNRQYQLLFTQGSGENK
EEI INYEFDTKDLVCLGLSSIVGVWYLLRKHVIANNLFGLAFSLNGVELLHLNNVSTGCILLGGLFIYDVFWVFG
TNVMVTVAKSFEAPIKLVFPQDLLEKGLEANNFAMLGLGDVVIPGIFIALLLRFDISLKKNTHTYFYTSFAAYIF
GLGLTIFIMHIFKHAQPALLYLVPACIGFPVLVALAKGEVTEMFSYEESNPKDPAAVTESEKGEASASKGLEKK
EK

6180/6881

FIGURE 5710

GTTCCATTTTCCGTATCTGCTTCGGGCTTCCACCTCATTTTTTTCGCTTTGCCCATTCTGTTTCAGCCAGTCGCC
AAGAATCATGAAAGTCGCCAGTGGCAGCACCGCCACCGCCGCGGGCCCCAGCTGCGCGCTGAAGGCCGGCAA
GACAGCGAGCGGTGCGGGCGAGGTGGTGCGCTGTCTGTCTGAGCAGAGCGTGGCCATCTCGCGCTGCGCCGGGGG
CGCCGGGGCGCGCCTGCCTGCCCTGCTGGACGAGCAGCAGGTAAACGTGCTGCTCTACGACATGAACGGCTGTTA
CTCAGCCTCAAGGAGCTGGTGCCACCCTGCCCCAGAACCGCAAGGTGAGCAAGGTGGAGATTCTCCAGCACGT
CATCGACTACATCAGGGACCTTCAGTTGGAGCTGAACTCGGAATCCGAAGTTGGAACCCCCGGGGGCCGAGGGCT
GCCGGTCCGGGCTCCGCTCAGCACCTCAACGGCGAGATCAGCGCCCTGACGGCCGAGGTGAGATCCAGATCCGA
CCACTAGATCATCCTTATACCGACGGGGAACGGAGGCCAGAGAGGGCGTGGGCGCTTGCACTTCCGTCCCA
TCCTTGCGGGTACCTGGCTATGCGGGGTGCCTAAGGAGCCTGGAAAAAGCGCTCCCCCGTCGTGCTTCCTGGGG
AAGGGGGCGTTTCGCTGCGCTCGGAGCGGCGTCCCTTCCAACCCGCCGTCTCATTTCTTCTCGTTTTTCAGGGCG
GCATGCGTTCTGCGGACGATCGCATCTTGTGTGCTGAAGCGCCTCCCCCAGGGACCGGCGGACCCAGCCATC
CAGGGGGCAAGAGGAATTACGTGCTCTGTGGGTCTCCCCCAACGCGCCTCGCCGGATCTGAGGGAGAACAAGACC
GATCGGCGGCCACTGCGCCCTTAAGTGCATCCAGCCTGGGGCTGAGGCTGAGGCACTGGCGAGGAGGGCGCTC
CTCTCTGCACACCTACTAGTCACCAGAGACTTTAGGGGGTGGGATTCCACTCGTGTGTTTTCTATTTTTTGAAG
CAGACATTTTAAAAAATGGTCACGTTTGGTGCTTCTCAGATTTCTGAGGAAATTGCTTTGTATTGTATTACAA
TGATCACCGACTGAAAATATTGTTTTACAATAGTTCTGTGGGGCTGTTTTTTGTTATTAAACAAATAATTTAGA
TGGTG

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FIGURE 5711

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVAISRCAGGAGARLPALLDEQQVNVLLYDMNGCYSR
LKELVPTLPQNRKVSKVEILQHVIDYIRDLQLELNSESEVGTPGGRGLPVRAPLSTLNGEISALTAEACVPADD
RILCR

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FIGURE 5712

GAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAAGTTCAGCACCACCCTA
GTCCCTTCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTT
TATGGCCTCAGCTGCCTCACTTCCTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGT
TCAGGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCA
GGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGCCTGGCTCCTGAGGGGCATCTGCCCCTCCCCCA
ACCCCCACCCACACTTGTTCCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTCAGTAATAAACTG
TGTTTACTCAGTG

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FIGURE 5713

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCCTGAGCTTCGCAATTCCTGTGTCGCCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGGAGCTGGTTTTTTTGGCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGTCCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCAGAAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCCAGTGCCATCAATGGC
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTGGGTACCGGCGG
GCATTCAGTGACCTGACATCCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGTAGTGAAT
GAACTCTTCCGGGATGGGGTAAACTGGGGTCGCATTGTGGCCTTTTTCTCCTTCGGCGGGGCACTGTGCGTGGAA
AGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTA
GAGCCTTGGATCCAGGAGAACGGCGGCTGGGATACTTTTGTGGAACCTATGGAACAATGCAGCAGCCGAGAGC
CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCA
CTCTTCAGTCGGAATGACCAGACACTGACCATCCACTCTACCCTCCACCCCTTCTCTGCTCCACCACATCCT
CCGTCCAGCCGCCATTGCCACCAGGAGAACCCTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC
CAGATCTGGTCCCTTGCAGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTG
GCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGG
GCAGGAGGGCCCTACCTGATTGGTGCAACCCTTACCCTTAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTT
GAAAGTTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGA
TCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTCCCTTTTCTTCCATCCCTACCCCTAAGAGCCATTTAG
GGGCCACTTTTGAAGTAGGGATTGAGGCTGCTTGGGATAAAGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGA
CTGGCTAGAGTCCCTCACTCCCAGTCCAAATGTCTCCAGAAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGG
AGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAGTTCAGCACCACCCTAGTCCC
TTCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGG
CCTCAGCTGCCTCACTTCCCTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAGG
GGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAG
GAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCTGCTGGCCAGGC
AGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTC
AGGCCTCCCTCTCTCTTCTGCTCCACCCTTGGCCTGTCTCATCCCCAGGGGTCCCAGCCACCCGGGCTCTCTGC
TGTACATATTTGAGACTAGTTTTTATTCCTTGTGAAGATGATATACTATTTTTGTAAAGCGTGTCTGATTTATG
TGTGAGGAGCTGCTGGCTTGCAGTGCGCGTGCACGTGGAGAGCTGGTGCCCGGAGATTGGACGGCCTGATGCTCC
CTCCCTGCCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGGCATCTGCCCCCCCCAACCC
ACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTCAGTAATAAACTGTGTTTA
CTCAGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5714

MSQSNRELVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGWDTFVELYGNNAAESRKQERFNRWFLTGMTVAGVVL
LGSLEFSRK

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FIGURE 5715

GGGAGCAGCTAGGGCGCGGGTCTCCCTCCTCCCGGAGTTTGGAAACGGCTGAAGTTCACCTTCCAGCCCCTAGCGC
CGTTTCGCGCCGCTAGGCCTGGCTTCTGAGGCGGTTCGGTGTCTCGGTCGCCGCTAGGCGGGGAGGGTGCGAGC
AGGGGCTTCGGGCCACGCTTCTCTTGGCGACAGGATTTTGCTGAAGTCCGTCCGGGAAACGGAGGAAAAAAGAG
TTGCGGGAGGCTGTGCGCTAATAACGGTCTTGATACATATTTGCCAGACTTCAAGATTTTCAGAAAAGGGGTGAA
AGAGAAGATTGCAACTTTGAGTCAGACCTGTAGGCCTGATAGACTGATTAAACCACAGAAGGTGACCTGCTGAGA
AAAGTGGTACAAATACTGGGAAAAACCTGCTCTTCTGCGTTAAGTGGGAGACAATGTCACAAAGTTAAAAAGCTCTT
ATTCTATGATGCCCCCTCGGATTTTCATCAATTTTTTCATCCTTGGATGATGAAGGAGATACTCAAAACATAGATT
CATGGTTTGAGGAGAAGGCCAATTTGGAGAATAAGTTACTGGGGAAGAATGGAAGTGGAGGGCTTTTTTCAGGGCA
AAACTCCTTTGAGAAAGGCTAATCTTCAGCAAGCTATTGTACACCTTTGAAACCAGTTGACAACACTTACTACA
AAGAGGCAGAAAAAGAAAATCTTGTGGAACAATCCATTCCGTCAAATGCTTGTCTTCCCTGGAAGTTGAGGCAG
CCATATCAAGAAAACTCCAGCCCAGCCTCAGAGAAGATCTCTTAGGCTTTCTGCTCAGAAGGATTTGGAACAGA
AAGAAAAGCATCATGTAAAAATGAAAGCCAAGAGATGTGCCACTCCTGTAATCATCGATGAAATTCTACCTCTA
AGAAAATGAAAGTTTCTAACAACAAAAAGAGCCAGAGGAAGAAGGCAGTGTCTCATCAAGATACTGCTGAAAAGA
ATGCATCTTCCCCAGAGAAAGCCAAGGGTAGACATACTGTGCCTTGTATGCCACCTGCAAAGCAGAAGTTTCTAA
AAAGTACTGAGGAGCAAGAGCTGGAGAAGAGTATGAAAATGCAGCAAGAGGTGGTGGAGATGCGGAAAAAGAATG
AAGAATTCAGAAACTTGCTCTGGCTGGAATAGGGCAACCTGTGAAGAAATCAGTGAGCCAGGTCACCAAATCAG
TTGACTTCCACTTCCGCACAGATGAGCGAATCAAACAACATCCTAAGAACCAGGAGGAATATAAGGAAGTGAAC
TTACATCTGAACTACGAAAGCATCCTTCATCTCCTGCCCGAGTGACTAAGGGATGTACCATTGTTAAGCCTTTCA
ACCTGTCCCAAGGAAAGAAAAGAACATTTGATGAAACAGTTTCTACATATGTGCCCTTGCACAGCAAGTTGAAG
ACTTCCATAAACGAACCCCTAACAGATATCATTGAGGAGCAAGAAGGATGATATTAACCTGTTACCCTCCAAAT
CTTCTGTGACCAAGATTTGCAGAGACCCACAGACTCCTGTACTGCAAACCAAACACCGTGCACGGGCTGTGACCT
GCAAAAGTACAGCAGAGCTGGAGGCTGAGGAGCTCGAGAAATTGCAACAATACAAATTCAAAGCACGTGAACTTG
ATCCCAGAATACTTGAAGGTGGGCCCCTCTTGCCCAAGAAACCACCTGTGAAACCACCCACCGAGCCTATTGGCT
TTGATTTGGAATTTGAGAAAAGAAATCCAGGAGCGAGAATCAAAGAAGAAAACAGAGGATGAACACTTTGAATTC
ATTCCAGACCTTGCCCTACTAAGATTTTGGAAGATGTTGTGGGTGTTCTCTGAAAAGAAGGTACTTCCAATCACC
TCCCCAAGTCACCAGCCTTTGCATTGAAGAACAGAATTCGAATGCCACCAAAGAAGATGAGGAAGAGGACGAAC
CGGTAGTGATAAAAGCTCAACCTGTGCCACATTATGGGGTGCCTTTTAAGCCCCAAATCCCAGAGGCAAGAACTG
TGGAATATGCCCTTTCTCGTTTGATTCTCGAGACAAAGAAGCTCAGTTACAGAAGGAGAAGAAAATAAAAGAAC
TGCAGAAAGGGGAGGTGCCCAAGTTCAAGGCACTTCCCTTGCCCTCATTTTGACACCATTAACTGCCAGAGAAGA
AGGTAAAGAAATGTGACCCAGATTGAACCTTTCTGCTTGGAGACTGACAGAAGAGGTGCTCTGAAGGCACAGACTT
GGAAGCACAGCTGGAAGAAGAACTGAGACAGCAGAAAGAAGCAGCTTGTTTTCAAGGCTCGTCCAAACACCGTCA
TCTCTCAGGAGCCCTTTGTTCCCAAGAAAGAGAAGAAATCAGTTGCTGAGGGCCTTTCTGTTTCTCTAGTTTCAGG
AACCTTTTCAGCTGGCTACTGAGAAGAGAGCCAAAGAGCGGCAGGAGCTGGAGAAGAGAATGGCTGAGGTAGAAG
CCCAGAAAGCCCAGCAGTTGGAGGAGGCCAGACTACAGGAGGAAGAGCAGAAAAAAGAGGAGCTGGCCAGGCTAC
GGAGAGAACTGGTGCATAAGGCAAAATCCAATACGCAAGTACCAGGGTCTGGAGATAAAGTCAAGTGACCAGCCTC
TGACTGTGCCTGTATCTCCCAAATCTCCACTCGATTCCACTGCTAAACTCAGCTGTGAGCTGCGGATACCGCCC
GGCAATGGGACCTGCTCTTAACCTCAAACCTAGGACCGTCTTGCTTTGTGATTGGGCATGGAGAGAACCCATTTT
TCCAGACTTTTACCTACCCGTGCCTGAGAAAGCATACTTGACAACCTGTGGACTCCAGTTTTGTTGAGAATTGTTT
TCTTACATTACTAAGGCTAATAATGAGATGTAACCTCATGAATGTCTCGATTAGACTCCATGTAGTTACTTCCTTT
AAACCATCAGCCGGCCTTTTATATGGGTCTTCACTCTGACTAGAATTTAGTCTCTGTGTGACACAGTGTAATCT
CTATTGCTATTGCCCCCTTACGACTCTCACCTCTCCCACTTTTTTTAAAAATTTTAAACCAGAAAATAAAGATAG
TTAAATCCTAAGATAGAGATTAAGTCATGGTTTAAATGAGGAACAATCAGTAAATCAGATTCTGTCTCTTCTCT
GCATACCGTGAATTTATAGTTAAGGATCCCTTTGCTGTGAGGGTAGAAAACCTCACCAACTGCACCAGTGAGGAA
GAAGACTGCGTGGATTTCATGGGGAGCCTCACAGCAGCCACGCAGCAGGCTCTGGGTGGGGCTGCCGTTAAGGCAC
GTTCTTTCTTACTGGTGTGATAACAACAGGGAACCGTGCAGTGTGCATTTTAAAGACCTGGCCTGGAATAAATA
CGTTTTGTCTTTCCCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5716

MSQVKSSYSYDAPSDFINFSSLDDEGDTQNIDSWFEEKANLENKLLGKNGTGGLFQGKTPLRKANLQQAIVTPLK
PVDNTYYKEAEKENLVEQSIPSNACSSLEVEAAISRKTPAQPPORRSLRLSAQKDLEQKEKHHVKMKAKRCATPVI
IDEILPSKKMKVSNNKKKPEEEGSAHQDTAEKNASSPEKAKGRHTVPCMPPAKQKFLKSTEEQELEKSMKMQQEV
VEMRKKNEEFKKLALAGIGQPVKKSVSQVTKSVDFHFRTDERIKQHPKNQEYKEVNFTSELRKHPSSPARVTKG
CTIVKPFNLSQGKKRTFDETSTYVPLAQQVEDFHKRTPNRYHLRSKKDDINLLPSKSSVTKICRDPQTPVLQTK
HRARAVTCKSTAELEAELEKLQQYKFKARELDPRILEGGPILPKKPPVKPPTTEPIGFDLEIEKRIQERESKKKT
EDEHFEFHSRPCPTKILEDVVGVPKVKVLPITVPKSPAFALKNRIRMPTKEDEEEDEPVIKAQPVPHYGVFPKP
QIPEARTVEICPFSFDSRDKERQLQKEKKIKELQKGEVPKFKALPLPHFDTINLPEKKVKNVTQIEPFCLETDRR
GALKAQTWKHQLEEEELRQQKEAACFKARPNTVISQEPFVPPKKEKKSVAEGLSGSLVQEPFQLATEKRAKERQELE
KRMAEVEAQKAQQLEEARLQEEEQKKEELARLRRELVHKANPIRKYQGLEIKSSDQPLTVPVSPKFSTRFHC

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FIGURE 5717

GGCAGGCTATTCCGGACGCCAGCCCTGGAAGCTGAGCCTGACCCAGCAGGTCCCAGCAGCCTGGCAGCCCGGCCA
GCATGCAGCAGCAGCCTCTGCCCCGGGCCTGGCGCCCCACAACCTGAGCCAACCAAGCCTCCCTACAGCTACATCG
CCCTTATTGCTATGGCCATCCAGAGCTCACCAGGGGAGCGGGCCACCCTCAGTGGCATCTACCGCTACATCATGG
GCCGATTTCGCTTCTACCGCCACAACCGGCCCGGCTGGCAGAACAGCATCCGCCACAACCTGTCACTCAACGAGT
GCTTTGTCAAGGTGCCCCGCGATGACCGCAAGCCAGGCAAGGGCAGCTACTGGACGCTGGACCCCTGACTGCCACG
ACATGTTTGAGCACGGCAGCTTCCTACGCCGCCGCCGCCGCTTCACCCGGCAGACAGGTGCTGAGGGCACC CGG
GCCCCGCCAAGGCACGCCGTGGACCCCTCAGGGCGACCAGCCAGGAGTCCCCAACGCCACGACCGGCA
GGCAGTGCTCATTCCCACCAGAGCTGCCAGATCCAAGGGCCTAAGCTTTGGGGGTCTGGTGGGGGCCATGCCAG
CCAGTATGTGCCAGCAACCACTGATGGCAGGCCTCGGCCACCCATGGAGCCCAAAGAGATTCCACGCCCCAAGC
CTGCATGCCCAGGGGAGCTCCCCGTGGCCACCTCATCTTCCTCATGCCAGCGTTTGGCTTTCCTGCCGGCTTCT
CAGAGGCTGAGAGTTTTAATAAGGCCCTACGCCCGTCTTGTCCCCGGAATCAGGCATCGGGAGCAGCTACCAGT
GTCGGCTGCAGGCACTGAATTTTGCATGGGGGCTGACCCAGGCCTTGAGCACCTCTTGGCCTCAGCAGCCCCCT
CCCCTGCACCAACCAACCCCTCCAGGCTCACTCCGGGCCCCACTGCCCTGCCAACTGACCACAAGGAACCCCTGGG
TTGCAGGTGGCTTCCCTGTCCAGGGAGGCTCCGGCTACCCATTGGGGCTGACCCCTGCCTATACCGGACGCCAG
GAATGTTCTTCTTTGAGTAAAGGCAGCCTCACCTCGGGCAGTCCCTGCAGGTCCCTCACCCCTCCGGGCTGAGCCT
GGCTCTAGGACCTGAAGAACTCTCGAAGGACCCAGCCCTGGTGAAGCAAGGACAACCACACAGAAAGCCAGGATT
GAAGCGGTGCTCAGCCAGGCCCTGGGGCTCCGGACAACTTGGGGGTGAGGGGAAGCAGGGCCTCTTGGGATT
TACTCTGTGGCTCTCAGGGCCAATAAAGCCATGTGATGATG

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FIGURE 5718

MQQQPLPGPGAPTTEPTKPPYSYIALIAMAIQSSPGQRATLSGIYRYIMGRFAFYRHNRPGWQNSIRHNLSLNEC
FVKVPRDDRKPGKGSYWTLPDCHDMFEHGSFLRRRRRFTRQTGAEGTRGPAKARRGPLRATSQDPGVNPATTGR
QCSFPPELPDPKGLSFGGLVGAMPASMCPTTDDGRPRPPMEPKEISTPKPACPGELPVATSSSSCPAFGFPAGFS
EAESFNKAPTIVLSPESGIGSSYQCRLQALNFCMGADPGLEHLLASAAPSPAPPTPPGSLRAPLPLPTDHKEPWV
AGGFPVQGGSGYPLGLTPCLYRTPGMFFFE

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FIGURE 5719

GGCACGAGGATCCCGGGGTCGCGCGAGAGCCGCAAGCGGAGTTGGTGGGCGCT**ATG**CTATCACCCGAGGCAGAGC
GAGTGCTGCGGTACCTTGTAGAAGTGGAGGAGCTCGCCGAGGAGGTGCTGGCGGACAAGCGGCAGATTGTGGACC
TGGACACTAAAAGGAATCAGAATCGAGAGGGCCTGAGGGCCCTGCAGAAGGATCTCAGCCTCTCTGAAGATGTGA
TGGTTTGCTTCGGGAACATGTTTATCAAGATGCCTCACCCCTGAGACAAAGGAAATGATTGAAAAAGATCAAGATC
ATCTGGATAAAAGAAATAGAAAACTGCGGAAGCAACTTAAAGTGAAGGTCAACCGCCTTTTTGAGGCCCAAGGCA
AACCGGAGCTGAAGGGTTTTAACTTGAACCCCTCAACCAGGATGAGCTTAAAGCTCTCAAGGTCATCTTGAAAG
GAT**G**AGACTCAAGAACCAAGATGGGGGACCAGCAACCCCCAGGGTCATGGAGGACCCAGGACCCTCCAACCTTG
ACACCTGTAAGGACAGGATCTGCCCTGTAAGGGGCCAGCCGTGAGGAATCTGGCCATGAAAACCTCTTTGTAGTG
CTTGGCTACTCTGTGATGGCAGGAGGGAACCTTCAGCCTGTCTGGCTGCTGGACCTGGACACCAGGGCTCGGTGG
ACACAAGATCTATTGACGGGCCTTGGTAGCCACCAAGTGGGTGTGTGGGGCAGTGGCTGTGGGGGTGTAAGAATGA
CTGCAACAGGCACTTCCCAACAATGGCCTGCTGTTTACATGGACCTGAGCAAGGAAGGAGGGAGGGAGGGGCAG
AGTGGAGTGTCAATTCCAGCATTCCTCTCAGAAGGGAGAGAGGTTTTAGGCTGGTGCCATGCGATTGGAATAAAG
CAGGAGGCTCATGGGTGGTTGCTGAATGAAGAACAGAATCTTGGTGCTTTGTGGCTCACCACAGCCATCTGTGGG
GCAGGCACACACACCTCCCGCCAGCTCCAATTTTGCACTTTTTCCCTGCTTGATTCCAAGAGTAGGTGCTGCCTA
GCAGCCCTTCGTGGCCACTCTTTACTCAGGAGGGCCTTGCAGAGTCCTGCACCAGGCCTGGGTGAGTGGATGCGC
CTCTTACCATATGACACGTGTCAAGATGCCCTTCGCCCCCTCTGAAAGTGGGGCCCGGCCAGCACTGCTCGTTA
CTGTCTGCCTTCAGTGGTCTGAGGTCCCAGTATGAACTGCCGTGAAGTCAAACTCTTATGTGTTCAATTAAGGGC
TCAATAAATGTTAGCTGAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5720

MLSPEAERVLRYLVEVEELAEVVLADKRQIVDLDTKRNQNREGLRALQKDLSEDMVCFGNMFIKMPHPETKE
MIEKDQDHLDEIEKLRKQLKVKNRLFEAQGKPELKGFNPLNQDELKALKVILKG

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FIGURE 5721A

CCAAGATGGCGACGGCGATGGTGAAGGAGACTCCGGGAGCGGGAGCTGGAGCGGGGCCCTCCGGGGTATCC
CAGGATCTTCCAGCACCCCATGCCTGGCCCTGAGCCACCTCCGGGACCCCTGACTCAGGCCTGAGGGCTACCTCT
GACTGGGCTTGTCTTCCCCGAAATCCACCTCCCTGGCCCTGCCCCCTGCACTCAGGCTTGTGAAGGCCCGAGTTT
TGGGGGAGGCGCCGTTTCGGAGGAAGACCTCGGCTGCTGCCTTCGCCGGTTCCCATTCTACTTTTGGTCTCCGCC
CACTGATTGGTTGCCGTGGTCTTTACTGCTTTTCTCCCTGATGTGTGAAACAAGCGCCTTCTATGTGCCTGGGGT
CGCGCCTATCAACTTCCACCAGAACGATCCCGTAGAAATCAAGGCTGTGAAGCTCACCAGCTCTCGAACCCAGCT
ACCTTATGAATACTATTCACTGCCCTTCTGCCAGCCAGCAAGATAACCTACAAGGCAGAGAATCTGGGAGAGGT
GCTGAGAGGGGACCGGATTGTCAACACCCCTTTCCAGGTTCTCATGAACAGCGAGAAGAAGTGTGAAGTTCTGTG
CAGCCAGTCCAACAAGCCAGTGACCCTGACAGTGGAGCAGAGCCGACTCGTGCCGAGCGGATCACAGAAGACTA
CTACGTCCACCTCATTTGCTGACAACCTGCCTGTGGCCACCCGGCTGGAGCTCTACTCCAACCGAGACAGCGATGA
CAAGAAGAAGGAAAAAGATGTGCAGTTTGAACACGGCTACCGGCTCGGCTTCACAGATGTCAACAAGATCTACCT
GCACAACCACCTCTCATTCATCCTTTACTATCATCGGGAGGACATGGAAGAGGACCAGGAGCACACGTACCGTGT
CGTCCGCTTCGAGGTGATTCCCCAGAGCATCAGGCTGGAGGACCTCAAAGCAGATGAGAAGAGTTCTGTCACTCT
GCCTGAGGGTACCAACTCCTCGCCCCAAGAAATTGACCCACCAAGGAGAATCAGCTGTACTTCACCTACTCTGT
CCACTGGGAGGAAAGTGATATCAAATGGGCCTCTCGCTGGGACACTTACCTGACCATGAGTGACGTCCAGATCCA
CTGGTTTTCTATCATTAACTCCGTTGTTGTGGTCTTCTTCTGTGAGGTATCCTGAGCATGATTATCATTCCGAC
CCTCCGGAAGGACATTGCCAACTACAACAAGGAGGATGACATTGAAGACACCATGGAGGAGTCTGGGTGGAAGTT
GGTGCACGGCGACGTCTTCAGGCCCCCAGTACCCCATGATCCTCAGCTCCCTGCTGGGCTCAGGCATTACAGCT
GTTCTGTATGATCCTCATCGTCATCTTTGTAGCCATGCTTGGGATGCTGTCGCCCTCCAGCCGGGAGCTCTCAT
GACCACAGCCTGCTTCTCTTTCATGTTTCATGGGGGTGTTTGGCGGATTTTCTGCTGGCCGTCTGTACCGCACTTT
AAAAGGCCATCGGTGGAAGAAAGGAGCCTTCTGTACGGCAACTCTGTACCCTGGTGTGGTTTTTGGCATCTGCTT
CGTATTGAATTGCTTCATTTGGGGAAAGCACTCATCAGGAGCGGTGCCCTTTCCACCATGGTGGCTCTGCTGTG
CATGTGGTTCGGGATCTCCCTGCCCCCTCGTCTACTTGGGCTACTACTTCGGCTTCCGAAAGCAGCCATATGACAA
CCCTGTGCGCACCAACCAGATTCCCCGGCAGATCCCCGAGCAGCGGTGGTACATGAACCGATTGTGGGCATCCT
CATGGCTGGGATCTTGCCCTTCGGCGCCATGTTTCATCGAGCTCTTCTTCATCTTCAGTGCTATCTGGGAGAATCA
GTTCTATTACCTCTTTGGCTTCCCTGTTCTTGTGTTTTCATCATCCTGGTGGTATCCTGTTTACAAATCAGCATCGT
CATGGTGTACTTCCAGCTGTGTGCAGAGGATTACCGCTGGTGGTGGAGAAATTCCTAGTCTCCGGGGGCTCTGC
ATTCTACGTCTGGTTTATGCCATCTTTTATTTTCGTTAACAAGCTGGACATCGTGAGTTCATCCCTCTCTCCT
CTACTTTGGCTACACGGCCCTCATGGTCTTGTCCTTCTGGCTGCTAACGGGTACCATCGGCTTCTATGCAGCCTA
CATGTTTGTTCGAAAGATCTATGCTGCTGTGAAGATAGACTTGATTGGAGTGGACCACGGCCAAGCCTGCTCCGTC
CTCGGACAGGAAGCCACCCTGCGTGGGGGACTGCAGGCACGCAAAATAAAATAACTCCTGCTCGTTTGGAAATGTA
ACTCCTGGCACAGTGTTCCTGGATCCTGGGGCTGCGTGGGGGGGGAGGGCCTGTAGATAATCTTGCGTTTTTC
GTCATCTTATTCCAGTTCTGTGGGGGATGAGTTTTTTTTTGTGGTTGCTTTTTCTTCAGTGCTAAGAAAGTTCCCT
CCAACAGGAACCTCTCTGACCTGTTTATTTCAGGTGTATTTCTGGTTTGGATTTTTTTTTCTTCTTTGTTTTAACA
AATGGATCCAGGATGGATAAATCCACCGAGATAAGGGTTTTGGTCACTGTCTCCACCTCAGTTCCCTCAGGGCTGT
TGGCCACCCTATGACTAACTGGAAGAGGACACGCCAGAGCTTCAGTGAGGTTTCCGAGCCTCTCCCTGCCCATCC
TCACCACTGAGGCCACGACAAAGCACAGCTCCAGCTCGGACAGCACCTCAGTGCCAGCCAGCCTCTGCCAGACC
TCTCTTTCCCTCTTCTCCCCAGCCTCCTCCAGGGCTGCCAAGGCAGGGTTTCCAGCCAGGCCTCGGGGTCTATCT
TTTACCAGGAGCAAACCCAAGTCTTAGTTGCTACAAGAAAATCCCCTGGAAGTACTGGGGGGCCAGGTTCCCCAG
ACAGCAGGAATTGCCCCCTGTTTCAGAGCAGCCGGAGTTTGTGACCACAAGGAAGAAGAGAAGAGACTTGCAGTG
AACTGTTTTTGTGCCAAGAAACCCCTGGACCTGGGGCCAAGTATTTCCCAAGCCAAGCATCCACTTGTCTGTGTCT
GGGAAGGGATGGCCAAGGCCGCTAGGGTCTTACCCCTCAGGATCACTCCCCAGCCCTTTCCTCAGGAGGTACCG
CTCTCCAAGGTGTGCTAGCAGTGGGCCCTGCCAACTTCAGGCAGAACAGGGAGGCCAGAGATTACAGATCCCC
TCCTGTAAGTGGCCAGGCATTCTCTCCCTGCCCTCTCTGGCCTCTGGGGTCTACTCACTTCTTTAGCCAGCCCC
ATCCCCCTCCACCCACACCTGAGTTCTTGCCCTCTCCTTTTGGGGACACCCAAAACACTGCTTGTGAGAAGGAAG
ATGGAAGGTAAGTTCTGTGCTTCTTTCCCCAATCCCCAGGAATGGACAAGAAGCCAACCTTAGAAAGAAGGGTCTC
ACGTGGCTGGCCTGGCTCCTCCGTAGACCCCTGTTCTTTTCAACCTCTGCCACCCGTGCATGTCTACAAACA
TTTGCTCTTAAGTTACAAGAGACCACATCCACCCAGGGATTAGGGTTCAAGTAGCAGCTGCTAACCTTGCACCA

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FIGURE 5721B

GCCCTTGTGGGACTCCCAACACAAGACAAAGCTCAGGATGCTGGTGATGCTAGGAAGATGTCCCTCCCCTCACTG
CCCCACATTCTCCAGTGGCTCTACCAGCCTCACCCATCAAACCAGTGAATTTCTCAATCTTGCCTCACAGTGAC
TGCAGCGCCAAGCGGCATCCACCAAGCATCAAGTTGGAGAAAAGGGAACCCAAGCAGTAGAGAGCGATATTGGAG
TCTTTTGTTCATTCAAATCTTGGATTTTTTTTTTCCCTAAGAGATTCTCTTTTAGGGGGAATGGGAAACGGAC
ACCTCATAAAGGGTTCAAAGATCATCAATTTTTCTGACTTTTTAAATCATTATCATTATTATTTTAATTAAAA
AATGCCTGTATGCCTTTTTTTGGTCGGATTGTAAATAAATATACCATTGTCCT

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FIGURE 5722

MCETSAFYVPGVAPINFHQNDPVEIKAVKLTSSRTQLPYEYSLPFCQPSKITYKAENLGEVLRGDRIVNTPFQV
LMNSEKKCEVLCSQSNKPVTLTVEQSRLVAERITEDYYVHLIADNLPVATRLELYSNRDSDDKKKEKDVQFEHGY
RLGFTDVNKIYLNHLSFILYYHREDMEEDQEHTYRVVRFEVIPQSIRLEDLKADEKSSCTLPEGTNSSPQEIDP
TKENQLYFTYSVHWEEEDIKWASRWDTYLTMSDVQIHWFSIINSVVVVFFLSGILSMIIIRTLRKDIANYNKEDD
IEDTMEESGWKLVHGDVFRPPQYPMILSSLLGSGIQLFCMILIVIFVAMLGMLSPSSRGALMTTACFLFMFMGVF
GGFSAGRLYRTLKGHRWKKGAFCTATLYPGVVFGICFVLNCFIWGKHSSGAVPFPTMVALLCMWFGISLPLVYLG
YYFGFRKQPYDNPVRTNQIPRQIPEQRWYMNRFVGI LMAGILPFGAMFIELFFIFSAIWENQFYFLFGFLFLVFI
ILVVSCSQISIVMVYFQLCAEDYRWWWRNFLVSGGSAFYVLVYAIFYFVNKLDIVEFIPSLLYFGYTALMVLSFW
LLTGITIGFYAAYMFVRKIYA AVKID

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FIGURE 5723A

ATGGCCCGACCGCCGCCACTACCGGGGCCTGAGGGGGCCTGGCGGAGCCCGAGCGCGGCCCCGGCCCGCAGCGTGG
GGCCCCGAGCGCGGTGAAGAGATTGTTTTCTGAAAGCTGCGTTGGAGGCTGTGACAGAGCTGAGAGCCTGTGTGG
AGCGGATGGGGAGGCTTTTCTCAATAACATGGCCCTTTGCCATTAGCCTTGCCATGACCACATTTTTTACCAGCGT
CCCCCCTGGATTCAAGATGCAAAGCAGGAGGAGGAAGTGGGCTGGAACTAGTTCCCAGGCCTCGGGGCCGGGA
GGCGGAGAGTCAAGTGAAGTGCCAATGTGAAATTTGCGGAACACCTTTCTCAAATGGGGAGAAGCTGAGGCCCTCA
CAGCCTCCCGCAACCAGAGCAGAGACCATATAGCTGCCCTCAGCTGCACTGTGGCAAGGCTTTTGCTTCCAAATA
CAAGCTGTATAGGCACATGGCCACCCACTCAGCCAGAAACCCACCAGTGTATGTACTGTGATAAGATGTTTCA
CCGCAAGGACCATCTGCGGAACCATCTGCAGACCCATGATCTTAACAAAGAGGCCCTCCACTGCTCTGAGTGCGG
TAAGAATTACAATACGAAGCTGGGCTACCGGCGCCACCTGGCCATGCATGCTGCCAGCAGCGGTGACCTCAGCTG
CAAGGTGTGCTGAGACCTTTGAGAGTACCCAGGCCCTGCTAGAGCACCTGAAGGCCCACTCACGCCGGGTAGC
AGGCGGTGCCAAGGAGAAGAAGCACCCCTGTGACCACTGCGACCGGCGGTTCTATACTCGTAAGGATGTACGGCG
GCACCTAGTGGTGACACAGGCCGTAAGGACTTCTGTGCCAGTACTGTGCCAGCGGTTTGCCGTAAGGACCA
CCTGACGCGTCATGTCAAGAAGAGCCACTCGCAGGAGCTGCTCAAGATCAAGACAGAGCCCGTGACATGTTAGG
CCTACTCAGCTGCAGCTCCACAGTCAGTGTGAAGGAAGAGCTGAGCCCTGTGCTGTGCATGGCCTCTCGGGACGT
AATGGGGACCAAGGCCTTCCCTGGCATGTTGCCATGGGCATGTATGGTGCCACATCCCTACCATGCCAGCAC
GGGCGTGCCACACTCCCTGGTGACACACGCTGCCATGGGTATGAGCTACCCCTCTGGAATCCTCACCTATCTC
TTCCCCAGCTCAGCTCCCTCCAAAATACCAGCTTGGATCTACCTCATACTTGCCCGACAAATTGCCCAAAGTGA
GGTGGATAGTTTTCTGGCGGAGCTTCTGGAAGCCTGTCTCTCTCATCCGCTGAACCCAGCCCGCCTCACCTCA
GCCGGCGGAGCTGCGGCCCTCCTAGATGAAGCACTGCTTGCCAAGAGCCCCGCCAACCTCTCTGAGGCCCTCTG
CGCTGCTAATGTGGACTTCTCCACCTACTGGGCTTTCTTCCACTCAACCTGCCCCCGTGAACCCACCTGGGGC
CACAGGAGGCTGGTTCATGGGCTACTCCAGGCTGAGGCACAGCCCCTGCTTACCCTTTGCAAGCTCAGCCTCA
AGATTCCCCAGGAGCTGGGGGACCACTGAACCTTTGGGCCTCTGCACTCCTTGCCCTCTGTCTTACGTCTGGCCT
GAGTAGCACCACCCCTGCCTCGTTTTCCATCAAGCAATTCCAGTAGCCCCACAGAGGCCCTCAGCTCAGTTTTTGGC
TCTGTTATGGAGCCTTAGTACCCACCCCGTCTGTGTCCCCCATGAAGGCAGCTGAGCTTTCAGAGCTGGGTTCAA
AAAAAAAAAATTCCAGTGTCTGTATACAGGAGCACTTGGTTTGGGGGTTTCCAGGCTCTAGGATCGATTCCAGAAGGA
GCCTTGAGCCCCAACCCCGTGAAAAGATCTCATACCGTAGGACTTCAGGTATTATTTACTTTTATTTTTTGGACC
TGAATCGGGAGCCACACTTGCCCTCTTCCCTCTCAAAGCGCCAGAACCTCCTTCTCTTTGGAGAATGGGGAGGC
CTCTTGAGACACAGAGGGTTTACCTTGATGACCTCTAGAGAAATTGCCAAGAAGCCACCTTCTGGTCCCCA
ACCTGCAGACCCACAGCAGTCAGTTGGTCAGGCCCTGCTGTAGAAGGTCACTTGGCTCCATTGCCTGCTTCCAA
CCAATGGGCAGGAGAGAAGGCCTTTATTTCTCGCCACCCATTCTCTCTGTACCAGCACCTCCGTTTTTCAGTCAG
TGTTGTCCAGCAACGGTACCGTTTACACAGTCACCTCAGACACACCATTTCACCTCCCTTGCCAAGCTGTTAGCC
TTAGAGTGATTGCAGTGAACACTGTTTACACACCGTGAATCCATTCCCATCAGTCCATTCCAGTTGGCACCAGCC
TGAACCATTTGGTACCTGGTGTTAACTGGAGTCTGTTTACAAGGTGGAGTCGGGGCTTGCTGACTTCTCTTCAT
TTGAGGTCACATTTTCCCCCGTGGGGAATAAACTGACTTTGGACTGCTTCAGTCTCTGCCATCTTCCATGACT
GCATTTGTTCTCTGCCTGCCTCGGCGGTATCCACAGAAGACAGGCAAGAGGATTGGAGCAGTTTTCTCACAGGTCT
GCAATTCGTTTTTTCTCAAGTACATTATGACCCCTCATCCTTCTCTTGAAGTGGAGAGGGGAAGAAATGAAAG
GCATGCCACGTCCGTACCTCCCCATCCCTAGTCCCCACCTTGAACATCATGAGCTGTTGTTATTAGTCTTGG
AAGCAGAGTCTGGGTGGTGTGGATAGCAAAGGAGGAAGTCTGAGCCCCTCATTTGGTCTTCTCTCCACCTGTCCC
TTTTCCGGGAAGTTGTGGAATTGTTGGAAGAAGAGTTTGAGAAGGTTAGGAATGGGTAGATAGCTAAGTCCATA
TCTATGGGTACATTGTTGTGTCCCAAACCAAAATTTTCTTATCCACAATGTCCCTTCTGTCTCTTCCACTTTAC
AGTGGACTCGGCCACTGTGCATAGGCTTCTCTGCTCTCCATCAAATCACTTCCACTTTCTGTGCCCCACCCCC
GCCTCCAGTTTTCCGCTAGTATCCGGCAAGGTTTCTTGCAACAAATGATTAGTTCTTTTCTTCTGACTCGTGGGG
CTCCCTGCTGCAGAGAGCACAGCCCTTGCCCTGGAGGCCAGGAACCCCATCCTTGCTTCATCTCAGTCTTTCATGG
GCTTCACTCTTCCCACTCACGGAAGGGAGGTAGCTCAGGGACCTCCACTGTGGGACCCCTTGAGACGCTTCCACTC
TGATTAGAAACACACTTCTACCTCTTTACTGTTAACTCTTAACAGATGCAGTCAGCAGTTTCTGGGCACTTCTC
TCAGTAGGTGCCTCATGCTGACTTCTCCAGTAGGGTTTTCAGGACAACTACCAAGGAATTGCCTCAGCCTCTAC
CAGTCTCTCCCTCACCCACCTTCTGTCTAGGTTCACTTGGTTTGTCTATCAGGAAGTGCAGAGGTCCAGGACTCAGC
TTTCTGCTTCAGCCTAAGCCAGTACTCCTTGTTTGGAGTAAAAGCCTTAAATTTAGCTCCCTAGCTCTTGATTA

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FIGURE 5723B

GAAGCAATTTGGAGTAAGTGTGTTTTGATTTAGGCAGGGTAGCTTGGGATACCTTTTTAAAAACACCAGATATTA
AAATGTCTGGCAAGGTTAGAATCAGACTAGATGATTTGCTTCTAAAAATTAGTTTCAGTGAGTCCCAGGGACTAA
TTAAGGTTTATTTTAAAAAGTGTCTACCTTGGTACGCAGCCACCTCCTGCATGCTGTGCATGTTATTGGGACTTG
TATTATAGGTGATGGTATGTGAGAATCCAGTTGGGACTCGCTGTTGCCATCCTCTTTGTTGTATCTGGTTTTTCAT
CACTAGACTCAGCAACCCCTTCTCACCTTAACCTGCCACCTTCCCTACACTCTCAGTTTACAGAGGCCACTGGGCCT
CTGGCTGCAGAATACAAAGTCCCGGGCTGTTAGAGGAGTCTTTTCTCTCTGCCTGCCCTTTTCTGTCCCTCCCT
CGAATTCTCTCTCCCCGTAAGTGATGCTGGAAAAGTCATAGGACTGGCAAAGCAACTGTTTAAACCCTTTGTAAC
CGGGGCCCTTGCCCCACCTCCTGTCTTTTCTCCTTGCCCTTCCCACTCCTGTGTCTCTCCATCTATCCTGTCTTT
CCTTTCTCTCTCAGTGCTCCTCAGCACCCACAAGGAATTTTCTATCACTGTGAACCTTTGCTGGTACAGAGGAA
TAATATCTGCCTTCACCTTTTTTTTTTTGGACCATAGCTAGCCAGTCATTTCTTAAACCTCCCTTCTAAATCT
GGGGGGTCGGGGGGAAAGAAAAAAAGCCTTAGTGGCCTGGTTGTTCAAAGGATAAGAATAGCTTTATCTTGCA
CTCAGTACCCGAACCTCACTTCAGTATGCTTACTGAGGCCATGAGAACCTGAGGGGCATCTGCCCAGGACAGGAGC
CATGGCATATGACAAAGACCAATGAGGGACCAGGAAAAAAGTGATGTCCCTTTCCCTGCCACCTCCAGCCTCT
GCCAGCAATGAGCTGTCCCCCTCCACCCTACACAGTAGCTGGTCAGGGCTGAGTACAGTCTGGGGGTAAGGGG
ATGACATGCCCAGGTGTCAGCTCAAAGGATCTCTGCATCATCTTGAGGTGGGAGGCAGGGAAAGGAGCGCCAATG
AGGTTCCCTGCAACCCCGCCCTCCAGCCCACCGCCCAACCTTTTACAAATGGCATTCTTCTTAATTGAAAATCCG
GGAAGCAGGTGTGATTACTTTTTTGCTCGTAGATATTGTCCTAAGTTGGAATTCTCCCACTGCCCTAAAACCTTC
CCTAGTAGTCTTTAAACTCCCCCTCCCTTTTTGGTAGCTGTTTTCTCCGTCTCTCTCCACCTGCCCTCTTAT
CTAGGAGCTGTTTGTAAGCACGATTTTTTTAACAGGTTATATTGTACAGGATCAATATTTTGCTTTTTAACAAGG
ATATTTATGTAATAAGAACTTTGCCTTAGGCAGGTGTTGGCCAGAAAAGTCCAGATTCTCTGGGATCCCACCC
TGGCCTCTCCTGGAACCTCTGAACCTGCTGTGGAAGGAATTGGCCATGACCTTCACCTCTGGAGAGTAGGGTCTAT
GGCGAGGGAAAAGGGTGTTACCATGATAACCTAGTGCCTCCATAGAGGGGTTTGGAAAAATTCCAGTCCGATTT
CTTTGTGTGTCAGCTGACTTCCTTAGCTGATTGTTCCCACTTGACCTCTCCACCTTTGGCACTAGAACTCCTGA
GACACCACTTCTCATGCTTCTCCCTCCCTACCAGCGGTCAAGGCTTTGGAGCCACTCTTTTGTAACCTCAGATTA
TTTAAAGAGAAAAGTACAAGACAGAAATCTTCTAGCACTTTGTAAACACAGTGAATAACCTCTTGAGTATTTTT
GGCTTTATATAAAAACAAGGTTTTTAATTGTAAAGTATAAGTGCCATTAGAAAATGCACAGGGCATATCTTTGTTA
AAGTAGATTTTTCAATGTTTTACAGAATTACATTTTCAAAAAAGGTTTTTATAATGAAGTTGTTTATTAAAAAC
TTCTGAATGATG

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FIGURE 5724

MTTFFTSVPPWIQDAKQEEVGVKLVPRPRGREAESQVKCQCEISGTPFSNGEKLRRPHSLPQPEQRPYSCPQLHC
GKAFASKYKLYRHMATHSAQKPHQCMYCDKMFHRKDHLRNHLQTHDPNKEALHCSECGKNYNTKLGYYRRHLAMHA
ASSGDLSCKVCLQTFESTQALLEHLKAHSRRVAGGAKEKKHPCDHCDRRFYTRKDVRRHLVVHTGRKDFLCQYCA
QRFGRKDHLTRHVKKSHSQELLKIKTEPVDMLGLLSCSSTVSVKEELSPVLCMASRDVMGTKAFFGMLPMGMYGA
HIPTMPSTGVPHSLVHNTLPMGMSYPLESSPISSPAQLPPKYQLGSTSYLPDKLPKVEVDSFLAELPGSLSLSSA
EPQPASPQPAAAAALLDEALLAKSPANLSEALCAANVDFSHLLGFLPLNLPPCNPPGATGGGLVMGYSQAEAQPLL
TTLQAQPQDSPGAGGPLNFGPLHSLPPVFTSGLSSTTLPRFHQAFQ

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FIGURE 5725A

CTTCCCTCCCCGACTGTGCGCCGCGGCTGGCTCGGGTTCCCGGGCCGACATGGGCGCCGCCGCTGGGCACGGCC
GCTGAGCGTGTCTTTCTGCTGCTGCTTCTGCCGCTCCCGGGGATGCCTGCGGGCTCCTGGGACCCGGCCGGTTA
CCTGCTCTACTGCCCCGTCATGGGGCGCTTTGGGAACCAGGCCGATCACTTCTTGGGCTCTCTGGCATTGTGAAA
GCTGCTAAACCGTACCTTGGCTGTCCCTCCTTGGATTGAGTACCAGCATCACAAGCCTCCTTTCACCAACCTCCA
TGTTGCTTACCAGAAGTACTTCAAGCTGGAGCCCCCTCCAGGCTTACCATCGGGTCATCAGCTTGGAGGATTTTCAT
GGAGAAGCTGGCACCCACCCACTGGCCCCCTGAGAAGCGGGTGGCATACTGCTTTGAGGTGGCAGCCAGCGAAG
CCCAGATAAGAAGACGTGCCCCATGAAGGAAGGAAACCCCTTTGGCCCCATTCTGGGATCAGTTTCATGTGAGTTT
CAACAAGTCGGAGCTTTTTACAGGCATTTCTTTCAGTGCTTCTACAGAGAACAATGGAGCCAGAGATTTTCTCC
AAAGGAACATCCGGTGCTTGCCCTGCCAGGAGCCCCAGCCAGTTCCCCGTCCTAGAGGAACACAGGCCACTACA
GAAGTACATGGTATGGTCAGACGAAATGGTGAAGACGGGAGAGGCCAGATTTCATGCCACCTTGTCCGGCCCTA
TGTGGGCATTTCATCTGCGCATTGGCTCTGACTGGAAGAACGCCTGTGCCATGCTGAAGGACGGGACTGCAGGCTC
GCACTTCATGGCCTCTCCGCACTGTGTGGGCTACAGCCGACGACAGCGGCCCCCTCACGATGACTATGTGCCT
GCCTGACCTGAAGGAGATCCAGAGGGCTGTGAAGCTCTGGGTGAGGTGCTGGATGCCAGTCGGTCTACGTTGC
TACTGATTCCGAGAGTTATGTGCCTGAGCTCCAACAGCTCTTCAAAGGGAAGGTGAAGGTGGTGAAGCTGAAGCC
TGAGGTGGCCAGGTGACCTGTACATCCTCGGCCAAGCCGACCACTTTATTGGCAACTGTGTCTCCTCCTTAC
TGCTTTGTGAAGCGGGAGCGGGACCTCCAGGGGAGGCGCTCTTCTTTCTTCGGCATGGACAGGCCCCCTAAGCT
GCGGGACGAGTTCTGAATTCTGGCCGGAGCACCAGACCCTCTGATCCTGGAGGGACCAGAGTCTGAGCTGGTCTT
CCAGCCAGGCCCTGGCAGCCAGAGGTGCTCCGGGATTGCAAACTCCTCTTCTCACCTGCCAAAGATGGAGAAGAGT
GCCAGGGACCCCTCAAGGAGGGAGACGCTCCATATCCCAGGGCATAGGACTTGCAGGTTCTTAGGAGCAGGAGCA
TCTCCCATCGCACGTGCTTTCTGCTCTTCTGGGAATTTCTCACACTGGCAAAGCAGTCCAGCCTCCGTCTTCTGG
TCCACTCTGCTCTGAGCAGCCTGGGATGCTGAACTCTTCAGAGAGATTTTTTTATAGAGAGATTTCTATAATTTT
GATACAAGGTCATGACTATCCTAGAACTCTCTGTGGTTTTTTGAAAATCATTGAATTCTATTAATGTAGGTACCTA
AAGTGACCTTAAGTGAATGTGGATGAGGCTGGGGCTGGTGTGGGCTTTTTGGCTGCTTTTCAAGGTGTCCCCAA
TGTGGCCCTCAAGAGCCATCCCCACTGCCTGGCCAGAGCCATTGTTGTCCCCCTACTTCTTAGGCCATTTCTGGGG
CTTGGGGGATGAATGCTGTCTGTCTGTAAACACTATGCAAATGGAAGTTATCGGTTGTGGTGTGTGCAGCGC
TCTGTGGGCGACTAAGTGCCACTCACGCAGCATGTTCTGGCAAGGAGCACATACCATCAAGCCACACTATCATG
GTATTGTTCTCACAGTCTTTTGGTGGTTGATGGCCACTGCAAACCTGGCACCATCAGATCTCTTCTGATCTCTTG
CCCCAGTGGGGCTGGTTGGTAGAATGTTGGCATTGGTTGATATCCAAAGCCTGTTCTCCAGCCGTCCTCTTG
CAGCTGGAGCCTTCAGGCCGTATTCTCACGAGGGAACGTTTGCCAAGGCTCTGACCTCACAGAAGATGCCAGGG
CCCAGAAGCCATCAGAATTATCAGTGGAGAAGCACCTTTTGACTCTTCCCTTCCAATGTAATCTCTGCCAACACC
ATGAGGCTTAAGGTGCTCTAAGTCATGAGTGTGTTTGGTCTCAAATGCTGCAGTTTAATAATCTGTGACTCCTGA
GAGCCCATGGTTTTTTGACCTTGTGGTTCTAAAATTCCTTGTCTGACCCCTGTAGATCTTTTCTTGCCATGTCA
CCTCCCTTGGCCTTTGATCCTGGAAAGGTGGCAGAGCCTCCACTGAGCCAGGCCAGAGCTCCTTGCAGTGCCTT
CTTCTTGTTTTACCTGTGGGAGGAAACACTTTTTTGTGAGGGGAGCCTGGTTCAGAGCTCAGAGGTCACACTG
TATCAAAGATCTCAAACAGCAAAGTCAGCATTTGCTGTATAGAGCTGCCACCCAACCTAAGCAGGAGAACTGT
ACAGAAAGGGCTTTTGCTATTTTTCCCTTTTGGGAAAACAATGAAGTGTGTTAAGTCCTGGGTGGACTGAGAGATG
GTTTGCTGTCCAGACTTGCTCTCAAGCCTCATCCAGAGAAGGAGCTGCAGATGAGGGAGCCCGTACACTCCCTG
CCACCACTAGGTTGTAAGCCTGTAGCTGGCTGGCTGATTTTCAATTTTGAATTCATTTGCCATCCACAGCCTTACA
CTAGGCACACACTTTAGAGTCTGGGGCTCCAGTGGGGCCCGCCTAATTTTTTTTCCCCCAAGACAGGGCCTTGC
TCTGTCTCCAGGCTGGAGTGCAGTGGCATGATCATGGCTTACTGCAGCCTTGATCTCCAGGCTCAAGCGATCC
TTCTGCCTCAGCCTCTCTGGTAGCTGAGACTGCATGCCCAGCTCCAAATCACCTTGATTTCATATCAGCAGTAATA
ATCACTTGTTGTTCTGAAAGAAAGGGCACCAGAAGTTCTAGCAAAATTCAGTTGTGTTCTGTGAGCTAGCACTTTT
TCCTCTGACCCAATTTTCTTACCTATAAAATGGTGATAAAACCGACAGGTTGTTCAAAGGCCAGATCAGCTAA
AGCATGTATATAAGAGCACGTTGTAACTTGAAAGAGACAAAGGCACAAATGTGGCTGTTGATTAATTTGACTGC
TTCTCGTTGCTCGTCACCTCCATGCCAGGCACTGTGCTTGCTAATTGCTTTATGGGGGCACTTCTTATTTATTC
CCCAGCCCTGGGAAATAGGAGCTGTCATTATCCTTCTCTTTCTGCACAAGGAAAAATTAATGCCCTGAGAATTGT
CATAATTTTCCCAAGGCTGCCAGCTGGTGGTGTAAAGCCAGAATTTGACCTCCAGAGCCAGTTTCATTAGCT
GCCATGCTCTGCTGCCTCTAATTCACAGAATGCACCTTCTACCCTGTGTGCCATGGAGACCTCCTATGGAAAAAT

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FIGURE 5725B

GATCAGCCACCTTACCTTCTACTGGGTACCTGCTGTGAGTCTGCCTATGCCAGAAGGATTAAGGAGGGGAGGTTA
CCCAAGAAACAAAGCCTACATGCCGCTTACAGCCCCGTTGGATGGTTGCTCAGTACAACAGTCTTGCAATTCAGC
AGGTGTTTGTTCATCACCTACTATGTGTCAGGCTCTATGCTAGGTACTGGGGATACAGGAGAGAATCAAGCGTAA
AGTCTTTGTTCTCAAGGAATTTGCATTCTAGAAAGTAGAAGATGTAATAAATGTACTGTGGGACATGTTAATAAG
TGCTATAAAGAAATATAAAGGGTTTGGGAGCAAAAAGAGGGAGTGGATCTATTTTAGATGAGCCCAGGTAAGACC
TCTCTGAAGAGCTGTCATGAAGGAGGGAGGGAGCACATTCTTGGCAGAGAAAACAGCACGTGCAAAGGCCCCGAG
ACTGGAGTGTGTTCCCTGAAGAGCAGCCAGGAGGCCAGCATGGCTGGAGAGGCAGGCATAGGCAGGGAACCGAGCA
GCAGGTCAAGAGCAGGCGAGCTGACATTCTGCAGCCTGGACGGCCATGGCAGGAAGCTTTTAGTTGGAGAGATACA
GGAAGCCTCCTAGGGTTCTGAGCAGAAGAGGGGCGATGAGCTGATTACATTCTGAAGGACCTCTCTAGCTGGCCA
GTGCTGAGGAGGTTGGAGAGAGAAAAGGGTGAAAGCAGAGAGACCAGTGCAGGGCTGTTAACAGGGTTGCAGGCGA
GAGACTGGGGTGCTGGGCTCCCCTAGACTAGGACTCCAGTGCCCTCCTCTCCCAAGAGACAAAGGCCATTGCATT
GAAGGAGGTGGGAAATGATTAGATTCTGAACATATGTAATTATTTTTTCAGTCTTTTTCAAAGATACAAATATTTA
CATAGTTTTAATCATGTAATATATACAATTTAATGTCCTAGTGTTTTACTTAATAGTGTATCATGTTTTCCCTGT
TGGTATGTAGCCTGGATAAATGCTCTTAATTATAAAAAATTCTGTGAGGAGTGTTCATAGTTTATTGTTTTCC
TATTATGAGAATTTAGGCCAAGTGTGGTGGCTCATGCCTGTAATCCAGCACTTTGCGAGGCCGAGGTGGGCAGA
TCACTTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAATTATCTCTACTAAAAATACAAAAAATAA
TAATAATAGCCAGGCGTGGTGGCACATGCCTGTATTCCAGCTGCTTGGGAGGCTGAGGCAGGAGAATGGCTTGA
ACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATGGTGCCACTGCATTCCAGCCTGGGCAACAGAGCGAGACTCCA
TCTCAAAAAAAGGAGACTTCATGTGCCCCAATTTTTCACTATTGTTATTTGAAAAAATATTTTTATTGTAAAG
AGTTTTTCTTTATTTAAATGTTCAATTAATAAAGTTGTTGGACGGGAAGCAAAAAAAGTTGTTTAAAGATAA
ATTCCAGAAAGTGAATTTGTTAGATCAAACACTTAAACTTTTTGTTATGGAAGAATTCAAATATAAATAAAAAA
TTGTGAGTAATAAATGAACCTCACAGTTTCAACAATGACCCAC

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FIGURE 5726

MGAAAWARPLSVSFLLLLLPLPGMPAGSWDPAGYLLYCPCMGRFGNQADHFLGSLAFAKLLNRTLAVPPWIEYQH
HKPPFTNLHVSQKYFKLEPLQAYHRVISLEDFMEKLAPTHWPPEKRVAYCFEVAAQRSPDKKTCPMKEGNPFGP
FWDQFHVSFNKSELF TGISFSASYREQWSQRFSPKEHPVLALPGAPAQFPVLEEHRPLQKYMVWSDVMKTGEAQ
IHAHLVRPYVGIHLRIGSDWKNACAMLDGTAGSHFMA SPQCVGYSRSTAAPLTMTMCLPDLKEIQRAVKLWVRS
LDAQSVYVATDSESYVPELQQLFKGKVKVSLKPEVAQVDLYILGQADHFIGNCVSSFTAFVKRERDLQGRPSSF
FGMDRPPKLRDEF

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FIGURE 5727A

ACCCACTCCCGCTGCCCGTCCGGCCCGCGCCGCTTCTCGCAGCAGCTGCTCCCGGCTCCGCGGCCGCGAGCCCG
CGTGGACGCTCCGAGCGCCCCCGACGGACGGGACCGGCTCCCTGGCGGTTCGGGCGAGCGGGCGGCAACGCTGCC
CGGCCGGCAGCGCTGGGGTTAAGTGGCCCAAGTAAACCTAGCTCGGCGATCGGCGCCGGAGATTTCGCGAGCCCGAG
CGCCCTGCACGGCCGCCAGCCGGCCTCCCGCCAGCCAGCCCCGACCCGCGGCTCCGCGCCCGAGCCGCGCCCCAG
CCAGCCCTGCGGCAGGAAAGCATGAAGGGAGACACCAGGCATCTCAATGGAGAGGAGGACGCCGGCGGGAGGGAA
GACTCGATCCTCGTCAACGGGGCTGCAGCGACCAGTCTCCGACTCGCCCCAATCCTGGAGGCTATCCGCACC
CCGGAGATCAGAGGCCGAAGATCAAGCTCGCGACTCTCCAAGAGGGAGGTGTCCAGTCTGCTAAGCTACACACAG
GACTTGACAGGCGATGGCGACGGGGAAGATGGGGATGGCTCTGACACCCAGTCATGCCAAAGCTCTTCCGGGAA
ACCAGGACTCGTTCAGAAAGCCAGCTGTCCGAACTCGAAATAACAACAGTGTCTCCAGCCGGGAGAGGCACAGG
CCTTCCCCACGTTCCACCCGAGGCCGGCAGGGCCGCAACCATGTGGACGAGTCCCCGTGGAGTTCCCGGCTACC
AGGTCCCTGAGACGGCGGGCAACAGCATCGGCAGGAACGCCATGGCCGTCCCTCCAGCTCTTACCTTACCATC
GACCTCACAGACGACACAGAGGACACACATGGGACGCCCCAGAGCAGCAGTACCCCTACGCCCGCCTAGCCAG
GACAGCCAGCAGGGGGGCATGGAGTCCCCGAGGTGGAGGCAGACAGTGGAGATGGAGACAGTTTACAGTATCAG
GATGGGAAGGAGTTTGAATAGGGGACCTCGTGTGGGGAAGATCAAGGGCTTCTCCTGGTGGCCCGCCATGGTG
GTGTCTTGAAGGCCACCTCCAAGCGACAGGCTATGTCTGGCATGCGGTGGGTCCAGTGGTTTGGCGATGGCAAG
TTCTCCGAGGTCTCTGCAGACAACTGGTGGCACTGGGGCTGTTAGCCAGCACTTTAATTTGGCCACCTTCAAT
AAGCTCGTCTCCTATCGAAAAGCCATGTACCATGCTCTGGAGAAAGCTAGGGTGGGAGCTGGCAAGACCTTCCCC
AGCAGCCCTGGAGACTCATTGGAGGACCAGCTGAAGCCCATGTTGGAGTGGGCCCCACGGGGGCTTCAAGCCCACT
GGGATCGAGGGCCTCAAACCCAAACAACACGCAACCAGTGGTTAATAAGTGAAGGTGCGTCTGTCAGGCAGTAGG
AAATTAGAATCAAGGAAATACGAGAACAAGACTCGAAGACGCACAGCTGACGACTCAGCCACCTCTGACTACTGC
CCCGCACCCAAAGCGCCTCAAGACAAATTGCTATAACAACGGCAAAGACCGAGGGGATGAAGATCAGAGCCGAGAA
CAAATGGCTTCAGATGTTGCCAACAACAAGAGCAGCCTGGAAGATGGCTGTTTGTCTTGTGGCAGGAAAAACCCC
GTGTCTTCCACCCTCTCTTTGAGGGGGGGCTCTGTGACATGCGGGGATCGCTTCCCTGAGCTGTTTTACATG
TATGATGACGATGGCTATCAGTCTTACTGCACTGTGTGCTGCGAGGGCCGAGAGCTGCTGCTTTCAGCAACACG
AGCTGCTGCCGGTGTCTTGTGTGGAGTGCCTGGAGGTGCTGGTGGGCACAGGCACAGCGCCGAGGCCAAGCTT
CAGGAGCCCTGGAGCTGTTACATGTGTCTCCCGCAGCGCTGTCTATGGCGTCTCTGCGCGCCGGAAGGACTGGAAC
GTGCGCCTGCAGGCCCTTCTTACCAGTGACACGGGGCTTGAATATGAAGCCCCCAAGCTGTACCCTGCCATTCCC
GCAGCCCGAAGGCGGCCCATTCGAGTCTGTCTATTGTTTATGGCATCGCGACAGGCTACCTAGTCTCTCAAAGAG
TTGGGCATAAAGGTAGGAAAGTACGTGCTTCTGAAGTGTGTGAGGAGTCCATTGCTGTTGGAACCGTGAAGCAC
GAGGGGAATATCAAATACGTGAACGACGTGAGGAACATCACAAGAAAAATATTGAAGAATGGGGCCCATTTGAC
TTGGTGATTGGCGGAAGCCCATGCAACGATCTCTCAAATGTGAATCCAGCCAGGAAAGGCCTGTATGAGGGTACA
GGCCGGCTCTTCTTCAATTTTACCACCTGCTGAATTACTCACGCCCCAAGGAGGGTGATGACCGGCCGTTCTTC
TGGATGTTTGAAGATGTTGTAGCCATGAAGTTGGCGACAAGAGGGACATCTCACGGTTCTTGGAGTGTAATCCA
GTGATGATTGATGCCATCAAAGTTTCTGCTGCTCACAGGGCCCGATACTTCTGGGGCAACCTACCCGGGATGAAC
AGGCCCCGTGATAGCATCAAAGAATGATAAACTCGAGCTGCAGGACTGCTTGAATACAATAGGATAGCCAAGTTA
AAGAAAGTACAGACAATAACCACCAAGTCGAACTCGATCAAACAGGGGAAAAACCAACTTTTCCCTGTTGTCTG
AATGGCAAAGAAGATGTTTTGTGGTGCATGAGCTCGAAAGGATCTTTGGCTTTCTGTGCACTACACAGACGTG
TCCAACATGGGCGGTGGTGCCCGCCAGAAGCTGCTGGGAAGGTCTTGGAGCGTGCCTGTCTATCCGACACCTCTTC
GCCCCCTGTAAGGACTACTTTGCATGTGAATAGTTCCAGCCAGGCCCCAAGCCCACTGGGGTGTGTGGCAGAGCC
AGGACCCAGGAGGTGTGATTCTGAAGGCATCCCCAGGCCCTGCTCTTCTCAGCTGTGTGGGTGATACCGTGTA
CCTCAGTTCCCTCTTGCTCAGTGGGGGCAGAGCCACCTGACTCTTGCAGGGGTAGCCTGAGGTGCCGCTCCTTG
TGCACAAATCAGACCTGGCTGCTTGGAGCAGCCTAACACGGTGTCTATTTTTTCTTCTCTCTAACTTTAACT
TGAAGTAGGTAGCAACGTGGCTTTTTTTTTTCCCTTCTGGGTCTACCACTCAGAGAAACAATGGCTAAGATAC
CAAAACCACAGTGCCGACAGCTCTCCAATACTCAGGTTAATGCTGAAAAATCATCCAAGACAGTTATTGCAAGAG
TTTAATTTTTGAAAAGTGGCTACTGCTCTGTGTTTACAGACGTGTGAGTTGTAGGCATGTAGCTACAGGACATT
TTTAAGGGCCCAGGATCGTTTTTTTCCAGGGCAAGCAGAAGAGAAAATGTTGTATATGTCTTTTACCCGGCACAT
TCCCTTGCCCTAAATACAAGGGCTGGAGTCTGCACGGGACCTATTAGAGTATTTTCCACAATGATGATGATTCA
GCAGGGATGACGTCATCATCATTCAGGGCTATTTTTTCCCCACAAACCAAGGGCAGGGGCCACTCTTAGCT

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FIGURE 5727B

AAATCCCTCCCCGTGACTGCAATAGAACCCTCTGGGGAGCTCAGGAAGGGGTGTGCTGAGTTCTATAATATAAGC
TGCCATATATTTTGTAGACAAGTATGGCTCCTCCATATCTCCCTCTTCCCTAGGAGAGGAGTGTGAAGCAAGGAG
CTTAGATAAGACACCCCTCAAACCCATTCCCTCTCCAGGAGACCTACCCTCCACAGGCACAGGTCCCCAGATGA
GAAGTCTGCTACCCTCATTCTCATCTTTTTACTAACTCAGAGGCAGTGACAGCAGTCAGGGACAGACATACAT
TTCTCATACCTTCCCCACATCTGAGAGATGACAGGGAAAACCTGCAAAGCTCGGTGCTCCCTTTGGAGATTTTTTA
ATCCTTTTTTATTCCATAAGAAGTCGTTTTTAGGGAGAACGGGAATTCAGACAAGCTGCATTCAGAAATGCTGT
CATAATGGTTTTTAACACCTTTTACTCTTCTTACTGGTGCTATTTTGTAGAATAAGGAACAACGTTGACAAGTTT
TGTGGGGCTTTTTATACACTTTTAAAATCTCAAACCTTCTATTTTTATGTTTAACGTTTTCATTAAAATTTTTTT
TGTAACCTGGAGCCACGACGTAACAAATATGGGGAAAAAAGTGTGCCTTGTTTCAACAGTTTTTGCTAATTTTTAG
GCTGAAAGATGACGGATGCCTAGAGTTTACCTTATGTTTAATTAAAATCAGTATTTGTCT

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FIGURE 5728

ACGAGACGAAGACGGAACCGGAGCCGGTTGCGGGCAGTGGACGCGGTTCTGCCGAGAGCCGAAGATGGCAGTGAA
CGTATACTCAACGTCAGTGACCAGTGATAACCTAAGTCGACATGACATGCTGGCCTGGATCAATGAGTCTCTGCA
GTTGAATCTGACAAAGATCGAACAGTTGTGCTCAGGGGCTGCGTATTGTGAGTTTATGGACATGCTGTTCCCTGG
CTCCATTGCCTTGAAGAAAAGTGAAATTCCAAGCTAAGCTAGAACACGAGTACATCCAGAACTTCAAATACTACA
AGCAGGTTTTTAAGAGAATGGGTGTTGACAAAATAATTCTGTGGACAAATTAGTAAAAGGAAAGTTTCAGGACAA
TTTTGAATTCGTTTCAGTGGTTCAAGAAGTTTTTCGATGCAAACTATGATGGAAAAGACTATGACCCTGTGGCTGC
CAGACAAGGTCAAGAAAAGTGCAGTGGCTCCTTCCCTTGTGCTCCAGCTCTGAATAAACCGAAGAAACCTCTCAC
TTCTAGCAGTGCAGCTCCCCAGAGGCCATCTCAACACAGAGAACCGCTGCGGCTCCTAAGGCTGGCCCTGGTGT
GGTGCGAAAAGAACCTGGTGTGGGCAACGGAGACGACGAGGCAGCTGAGTTGATGCAGCAGGTCAACGTATTGAA
ACTTACTGTTGAAGACTTGGAGAAAAGAGAGGGGATTTCTACTTCGGAAAGCTACGGAACATTGAATTGATTGCCA
GGAGAACGAGGGGGGAAAACGACCCTGTATTGCAGAGGATTGTAGACATTCTGTATGCCACAGATGAAGGCTTTGT
GATACCTGATGAAGGGGGCCACAGGAGGAGCAAGAAGAGTATTAACAGCCTGGACCAGCAGAGCAACATCGGAA
TTCTTCACTCCAAATCATGTGCTTAAGTGTAAATACTCCCTTTTGTATCCTTAGAGGACTCACTGGTTTCTTT
TCATAAGCAAAAAGTACCTCTTCTTAAAGTGCACCTTTCAGACGTTTCACTCCTTTTCCAATAAGTTTGAGTTAG
GAGCTTTTACCTTGTAGCAGAGCAGTATTAACACCTAGTTGGTTACCTGGAAAACAGAGAGGCTGACCGTGGGG
CTCACCATGCGGATGCGGGTCACACTGAATGCTGGAGAGATGTTATGTAATATGCTGAGGTGGCGACCTCAGTGG
AGAAATGTAAAGACTGAATTGAATTTTAAGCTAATGTGAAATCAGAGAATGTTGTAATAAGTAAATGCCTTAAGA
GTATTTAAAATATGCTTCCACATTTCAAATATAAAATGTAACATGACAAGAGATTTTGCCTTTGACATTGTGTC
TGGAAGGAAGGGCCAGACCTTGAACCTTTGAACCTGCTGTCAACAGGTCTTACAGGGCTGCTTGAACCCTCA
TAGGCCTAGGCTTTGGTCTAAAAGGAACATTTAAAAGTTGCCCTGTAAAGTTATTTGGTGTGATTGACCAATTG
CATCCCAGCTAAAAGCAAGAGGCATCGTTGCCTGGATAATAGAGGATGTGTTTCAGCCCTGAGATGTTACAGTT
GAAGAGCTTGGTTTTTCATTGAGCATTCTCTATTTTTCCAGTTATCCCCGAAATTTCTATGTATTATATTTTTTG
GGGAAGTGAGGTGTGCCAGTTTTTTAATCTAACAATACTTTTTGGGGACTTGCCACATCTCTGGGATTTGAAT
GGGGATTGTATCCCATTTTACTGTCTTTTAGGTTTACATTTACCACGTTTCTCTTCTCTGCTCCCCCTGCCACT
GGGGACTCCTCTTTGGCTCCTTGAAGTTTGCTGCTTAGAGTTGGAAGTGCAGCAGGCAGGTGATCATGCTGCAAG
TTCTTTCTGGACCTCTGGCAAAGGGAGTGGTCAGTGAAGGCCATCGTTACCTTGGGATCTGCCAGGCTGGGGTGT
TTTCGGTATCTGCTGTTACAGCTCTCCACTGTAATCCGAATACTTTGCCAGTGCACCTAATCTCTTTGGAGATAA
AATTCATTAGTGTGTTACTAAATGTTAATTTTCTTTTTCGGAAAATACAGTACCGTGTCTGAATTAATTATTAAT
ATTTAAAATACTTCATTCTTAACCTCTCCCTCATTGCTTTGCCACAGCCTATTCAGTTCCTTTGTTTGGCAGG
ATTCTGCAAAATGTGTCTCACCCTACTGAGATTGTTTCCAGCCCTGATGTATTGTATTGATTGTTTCTGGTG
GTAGCTTGTCTGAAATGTGTGTAGAAAGCAAGTATTTTATGATAAAAATGTTGTGTAGTGCATGCTCTGTGTGG
AATTCAGAGGAAAACCCAGATTGAGTATTAACAATGCCAAAAATGCAAGTAAGTACCATTTGTTCAAATGACA
GTGGTGCTATTTCTCTTTTGTGGCCTTTTAGACTTTTGTGTCCTAAAATTCCATTTTATTGGGAACCCATTTTC
CACCTGGTCTTTCTTGACAGGGTTTTTTTCTACTTTAAACAGTTTCTAAATAAAATTCTGTATTTCAAGAG

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FIGURE 5729

AGAGAGGAGCGGGCCGAGGACTCCAGCGTGCCCAGGTCTGGCATCCTGCACTTGCTGCCCTCTGACACCTGGGAA
GATGGGCCGGCCCGTGGACCTTCACCCTTCTCTGTGGTTTGCTGGCAGCCACCTTGATCCAAGCCACCCTCAGTCC
CACTGCAGTTCTCATCCTCGGCCCAAAAGTCATCAAAGAAAAGCTGACACAGGAGCTGAAGGACCACAACGCCAC
CAGCATCCTGCAGCAGCTGCCGCTGCTCAGTGCCATGCGGGAAAAGCCAGCCGGAGGCATCCCTGTGCTGGGCAG
CCTGGTGAACACCGTCCTGAAGCACGTTCATCTGGCTGAAGGTTCATCACAGCTAACATCCTCCAGCTGCAGGTGAA
GCCCTCGGCCAATGACCAGGAGCTGCTAGTCAAGATCCCCCTGGACATGGTGGCTGGATTCAACACGCCCCCTGGT
CAAGACCATCGTGGAGTTCCACATGACGACTGAGGCCCAAGCCACCATCCGCATGGACACCAGTGCAAGTGGCCC
CACCCGCTGGTCTCAGTGACTGTGCCACCAGCCATGGGAGCCCTGCGCATCCAACCTGCTGCATAAGCTCTCCTT
CCTGGTGAACGCCTTAGCTAAGCAGGTTCATGAACCTCCTAGTGCCATCCCTGCCCAATCTAGTGAAAAACCAGCT
GTGTCCCGTGATCGAGGCTTCCTTCAATGGCATGTATGCAGACCTCCTGCAGCTGGTGAAGGTGCCCATTTCCCT
CAGCATTGACCGTCTGGAGTTTGACCTTCTGTATCCTGCCATCAAGGGTGACACCATTAGCTCTACCTGGGGGC
CAAGTTGTTGGACTCACAGGGAAAGGTGACCAAGTGGTTCAATAACTCTGCAGCTTCCCTGACAATGCCACCCT
GGACAACATCCCGTTTACGCTCATCGTGAGTCAGGACGTGGTGAAAGCTGCAGTGGCTGCTGTGCTCTCTCCAGA
AGAATTCATGGTCCTGTTGGACTCTGTGCTTCCCTGAGAGTGCCCATCGGCTGAAGTCAAGCATCGGGCTGATCAA
TGAAAAAGGCTGCAGATAAGCTGGGATCTACCCAGATCGTGAAGATCCTAACTCAGGACACTCCCGAGTTTTTTAT
AGACCAAGGCCATGCCAAGGTGGCCCAACTGATCGTGCTGGAAGTGTTTCCCTCCAGTGAAGCCCTCCGCCCTTT
GTTACCCCTGGGCATCGAAGCCAGCTCGGAAGCTCAGTTTTACACCAAAGGTGACCAACTTATACTCAACTTGAA
TAACATCAGCTCTGATCGGATCCAGCTGATGAACCTCTGGGATTGGCTGGTTCCAACCTGATGTTCTGAAAAACAT
CATCACTGAGATCATCCACTCCATCCTGCTGCCGAACCAGAATGGCAAATTAAGATCTGGGGTCCAGTGTCATT
GGTGAAGGCCTTGGGATTCGAGGCAGCTGAGTCTCACTGAGCAAGGATGCCCTTGTGCTTACTCCAGCCTCCTT
GTGGAAACCCACCTCTCCTGTCTCCAGTGAAGACTTGGATGGCAGCCATCAGGGAAGGCTGGGTCCAGCTGGG
AGTATGGGTGTGAGCTCTATAGACCATCCCTCTCTGCAATCAATAAACACTTGCCTGTGAAAAAAAAAAAAAAAA
AAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5730

MAGPWTFLLCGLLAATLIQATLSPTAVLILGPKVIEKLTQELKDNATSILQQLPLLSAMREKPAGGIPVLGS
LVNTVLKHVIWLKVITANILQLQVKPSANDQELLVKIPLDMVAGFNTPLVKTIIVEFHMTTEAQATIRMDTSASGP
TRLVLSDCATSHGSLRIQLLHKLSFLVNALAKQVMNLLVPSLPNLVKNQLCPVIEASFNGMYADLLQLVKVPISL
SIDRLEFDLLYPAIKGD TIQLYLGA KLLDSQGKVTKWFNNSAASLTMP TLDNIPFSLIVSQDVVKA AVA AVLSPE
EFMVLLDSVLPESA HRLKSSIGLINEKAADKLGSTQIVKILTQDTPEFFIDQGHAKVAQLIVLEVFP SSEALRPL
FTLGIEASSEAQFYTKG DQLILNLN NISSDRIQLMNSGIGWFQPDVLKNIITEIIHSILLENQNGKLRS GVPVSL
VKALGFEEAAESSLSKDALV LTPASLWKPTSPVSQ

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FIGURE 5731

CCCTGCTGGGGCATCCCCGGCCTGTGATGCTCCCGTCTCCCCAGAACCGCTGTTGTCCCGGATGGGCAGCCTGC
GGGCTCCCGTGGACGAGGACCGCCTGTCCCGCTGGTGGCGGCCGACTCGCTCCTGGAGCATGTGCGGGAGGACT
TCTCCGGCCTCCTCCCTGAGGAGTTTCATCAGCCTTTCCCCACCCACGAGGCCCTCGACTACCACTTCGGCCTCG
AGGAGGGCGAGGGCATCAGAGACCTCTTCGACTGTGACTTTGGGGACCTCACCCCCCTGGATTTCTGACAGGGCT
TGGAGGGACAGGGTTTCCAGAGATGCTCACCTTGTCTCTGCAGCCCTGGAGCCCCCTGTCCCTGGCCGTCCTCC
CAGCCTGTTTGAAAACATTTAATTTATACCCCTCTCCTCTGTCTCCAGAAGCTTCTAGCTCTGGGGTCTGGCTAC
CGCTAGGAGGCTGAGCAAGCCAGGAAGGGAAGGAGTCTGTGTGGTGTGTATGTGCATGCAGCCTACACCCACACG
TGTGTACCGGGGGTGAATGTGTGTGAGCATGTGTGTGTGCATGTACCGGGGAATGAAGGTGAACATACACCTCTG
TGTGTGCACTGCAGACACGCCCCAGTGTGTCCACATGTGTGTGCATGAGTCCATGTGTGCGCGTGGGGGGGCTCT
AACTGCACTTTCGGCCCTTTTGCTCTGGGGGTCCCAACAAGGCCAGGGCAGTGCCTGCTCCCAGAATCTGGTGCT
CTGACCAGGCCAGGTGGGGAGGCTTTGGCTGGCTGGGCGTGTAGGACGGTGAGAGCACTTCTGTCTTAAAGGTTT
TTTCTGATTGAAGCTTTAATGGAGCGTTATTTATTTATCGAGGCCTCTTTGGTGAGCCTGGGGAATCAGCAAAGG
GGAGGAGGGGTGTGGGGTTGATACCCCAACTCCCTCTACCCTTGAGCAAGGGCAGGGGTCCCTGAGCTGTTCTTC
TGCCCCATACTGAAGGAACTGAGGCCTGGGTGATTTATTTATTGGGAAAGTGAGGGAGGGAGACAGACTGACTGA
CAGCCATGGGTGGTCAGATGGTGGGTGGGCCCTCTCCAGGGGGCCAGTTCAGGGCCCCAGCTGCCCCCAGGAT
GGATATGAGATGGGAGAGGTGAGTGGGGACCTTCACTGATGTGGGCAGGAGGGGTGGTGAAGGCCTCCCCAGC
CCAGACCCTGTGGTCCCTCCTGCAGTGTCTGAAGCGCTGCCTCCCCACTGCTCTGCCCCACCTCCAATCTGCA
CTTTGATTTGCTTCCCTAACAGCTCTGTTCCCTCCTGCTTTGGTTTTAATAAATATTTTGATGACGTTTGGGCCGG
GTTTTGGGACTCTGTTGGGAACATTTGCGGGCGGGAGAGGCCAAGGTTGCTGGGGAAATGCCATTCTCCACTTC
CCTTCTCCCTGTCCGTGCCGATTTGATTTGAGCCTCATAACTCGAAGAAAGGTCAGCTTCCTCGCTGTTTTGGT
CCTAACTCAAAAGCAGATCCAGTAAAGGTTTTTTGTTGT

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FIGURE 5732

MALAGAPAGGPCAPALEALLGAGALRLLDSSQIVIIISAAQDASAPPAPTGPAAAPAAGPCDPDLLLLFATPQAPRPT
PSAPRPALGRPPVKRRLDLETDHQYLAESSGPARGRGRHPGKGVKSPGEKSRYETSLNLTTKRFELELLSHSADGV
VDLNWAAEVLKVQKRRIYDITNVLEGIQLIAKKSKNHIQWLGSHTTVGVGGRLEGLTQDLRQLQESEQQLDHLMN
ICTTQLRLLSEDTDSQRLAYVTCQDLRSIADPAEQMVMVIKAPPETQLQAVDSSSENFQISLKSQGPIDVFLCPE
ETVGGISPGKTPSQEVTSEENRATDSATIVSPPPSSPPSSLTTDPSQSLLSLEQEPLL SRMGSLRAPVDEDRLS
PLVAADSLLEHVREDFSGLLPEEFISLSPHEALDYHFGLEE GEGIRD LFD CDFGDLT PLDF

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FIGURE 5733

CGCGCGAGCGGCGCCAGCTCGGGGCAGCGGAACCCAGAGAAGCTGAGGGGGCGGTAGCGGCGGCGACGGCGACGA
CGACGACTCCCGCGCGTGTGCCCAGCCTCTTCCCGCCGAGCCGCCCTTTTCCCTCCCTCCCTTACGTCCCCGAGT
GCGGCAGTACCGCCTCCTTCCCAGCCGCGCGGCTTCCTCCAGACCTCTCGGCGCGGGTGAGCCCTATTCCCAGAG
GCAGGTGGTGCTGACCCTGTAACCCAAAGGAGGAAACAGCTGGCTAAGCTCATCATTGTTACTGGTGGGCACCAT
GTCCTTGAAGCTTCAGGCAAGCAATGTAACCAACAAGAATGACCCCAAGTCCATCAACTCTCGAGTCTTCATTGG
AAACCTCAACACAGCTCTGGTGAAGAAATCAGATGTGGAGACCATCTTCTCTAAGTATGGCCGTGTGGCCGGCTG
TTCTGTGCACAAGGGCTATGCCTTTGTTTCAGTACTCCAATGAGCGCCATGCCCGGGCAGCTGTGCTGGGAGAGAA
TGGGCGGGTGCTGGCCGGGCAGACCCTGGACATCAACATGGCTGGAGAGCCTAAGCCTGACAGACCCAAGGGGCT
AAAGAGAGCAGCATCTGCCATATACAGTGGCTACATCTTTGACTATGATTACTACCGGGACGACTTCTACGACAG
GCTCTTCGACTACCGGGGCGGTCTGTGCGCCGTGCCAGTGCCAGGGCGGTCCCTGTGAAGCGACCCCGGGTCAC
AGTCCCTTTGGTCCGGCGTGTCAAACTAACGTACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTCACCACCAG
CTCAGCCAAGATCAAGTTAAAGAGCAGTGAGCTGCAGGCCATCAAGACGGAGCTGACACAGATCAAGTCCAATAT
CGATGCCCTGCTGAGCCGCTTGGAGCAGATCGCTGCGGAGCAAAAGGCCAATCCAGATGGCAAGAAGAAGGGTGA
TGGAGGTGGCGCCGGCGGCGGCGGCGGTGGTGGTGGCAGCGGTGGCGGTGGCAGTGGTGGTGGCGGTGGCGGTGG
CAGCAGCCGGCCACCAGCCCCCAAGAGAACACAACCTTCTGAGGCAGGCCTGCCCCAGGGGGGAAGCACGGACCCG
AGACGACGGCGATGAGGAAGGGCTCCTGACACACAGCGAGGAAGAGCTGGAACACAGCCAGGACACAGACGCGGA
TGATGGGGCCTTGCAAGTAAGCAGCCTGACAGGAGCAATGGCCACCAGCAGGTGAAGGGCATCGCTGCCCCAGGCC
TCAAGCCGGGCACCCAACCCTGGATGCCACCCCCAGCGGGTACCAGAGGAAAAGCTGGCAGCAGGCGCCTCCTCC
CCCAACGCATCCCAGCCAGTGCCATGTCCTCTGCAGGTGGAGTTACTGGCCTACTCCTTCCCCATGAGCCCTCCC
TGTCTGCACTGCCCAGGCCAGAGGGTAGAGCACAGGGGTTTCCCCATACTACCTCCCCCTCCCCAGGACACTCCCA
GGCTTGGGTTTTTTCTATAGGTTTGGCGGGGGCCACAGGGAGGGGACCCTGACAATAAAGAGATTGGATCCCAA
AAAAAAAAAAAAA

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FIGURE 5734

CGTTGAAGACATTGTCGGGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCG
TCTGACTTCCCGTCCGTGCCGAGCCCACTCGAGCCGCAGCCATGTCTGGGGACGAGATGATTTTTGATCCTACTA
TGAGCAAGAAGAAAAAGAAGAAGAAGACCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCC
AGCCTTCAGAAACAAAAGAAGTGGAGCCAGAGCCAAGTGGAGACAAGGATTTGGAAGCTGATGAAGAGGACACTA
GGAAAAAAGATGCTTCTGATGATCTAGATGACTTGAACCTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAA
AGATATTTGATATTGATGAAGCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTG
AACCAGAGGATGACCTTGACATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGTGTAAAGTTCCCAGATGAGG
ATGAAATACTAGAGAAAGATGAAGCTCTAGAAGATGAAGACAACAAAAAGATGATGGTATCTCATTTCAGTAATC
AGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCA
TGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCAGG
TAGGAACCAAGAAAACCTCTTTTGTCAACTTTACAGATATCTGTAACTATTACATCGTCAGCCCAAACATCTCC
TTGCATTTTTGTTGGCTGAATTGGGTACAAGTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGAT
TCCAACAGAAACAGATAGAAAATGTCTTGAGAAGATATATCAAGGAATATGTCACTTGTCACACATGCCGATCAC
CGGACACAATCCTGCAGAAGGACATACGACTCTATTTCTACAGTGCGAAAACCTTGTCATTCTAGATGTTCTGTTG
CCAGTATCAAAACCGGCTTCCAGGCTGTACGGGCAAGCGAGCACAGCTCCGTGCCAAAAGCTAACTAAATTTGCTA
ATCACTGATTTTGCAAAGCTTGTGTGGAGATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCGTTGTAT
TAAAAACAAGATAAAAAAGCTGCCAAGATTTTTGGCGAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTC
AAGCTGTTGACATACTCATTGCCTACTTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTT
AAAATCGTTCATAGACTTCTGTAAATGCAAGATAAATTAAAGTTATTATAACAGTGATTCTTTCA

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FIGURE 5735

MSGDEMIFDPTMSKKKKKKKKPFMLDEEGDTQTEETQPSETKEVEPEPTEDKDLEADEEDTRKKDASDDLDDLNF
FNQKKKKKKTKKIFDIDEAEEGVKDLKIESDVQEPTPEDDLIMLGNNKKKKKKNVKFPDEDEILEKDEALEDED
NKKDDGISFSNQTPAWAGSERDYTYEELLNRVFNIMREKNPDMVAGEKRKFVMKPPQVVRVGTKKTSFVNFTDI
CKLLHRQPKHLLAFLLAELGTSGSIDGNNQLVIKGRFQQQIENVLRRYIKEYVTCHTCRSPDTILQKDIRLYFL
QCETCHSRCSVASIKTGFQAVTGKRAQLRAN

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FIGURE 5736

CTGAGGCCCAGCCCCCTTCGCCCCGTTTCCATCACGAGTGCCGCCAGCATGTCTGACAAACTGCCCTACAAAGTCG
CCGACATCGGCCTGGCTGCCTGGGGACGCAAGGCCCTGGACATTGCTGAGAACGAGATGCCGGGCCCTGATGCGTA
TGCGGGAGCGGTACTCGGCCTCCAAGCCACTGAAGGGCGCCCGCATCGCTGGCTGCCTGCACATGACCGTGGAGA
CGGCCGTCTCATTTGAGACCCCTCGTCACCCTGGGTGCTGAGGTGCAGTGGTCCAGCTGCAACATCTTCTCCACCC
AGGACCATGCGGCGGCTGCCATTGCCAAGGCTGGCATTCCGGTGTATGCCTGGAAGGGCGAAACGGACGAGGAGT
ACCTGTGGTGCATTGAGCAGACCCCTGTACTTCAAGGACGGGCCCCCTCAACATGATTCTGGACGACGGGGGCGACC
TCACCAACCTCATCCACACCAAGTACCCGCAGCTTCTGCCAGGCATCCGAGGCATCTCTGAGGAGACCACGACTG
GGGTCCACAACCTCTACAAGATGATGGCCAATGGGATCCTCAAGGTGCCTGCCATCAATGTCAATGACTCCGTCA
CCAAGAGCAAGTTTGACAACCTCTATGGCTGCCGGGAGTCCCTCATAGATGGCATCAAGCGGGCCACAGATGTGA
TGATTGCCGGCAAGGTAGCGGTGGTAGCAGGCTATGGTGTATGTGGGCAAGGGCTGTGCCAGGCCCTGCGGGGTT
TCGGAGCCCCGCTCATCATCACCGAGATTGACCCCATCAACGCACTGCAGGCTGCCATGGAGGGCTATGAGGTGA
CCACCATGGATGAGGCCTGTGAGGAGGGCAACATCTTTGTACCACCACAGGCTGTATTGACATCATCCTTGGCC
GGCACTTTGAGCAGATGAAGGATGATGCCATTGTGTGTAACATTGGACACTTTGACGTGGAGATCGATGTCAAGT
GGCTCAACGAGAACGCCGTGGAGAAGGTGAACATCAAGCCGCAGGTGGACCGGTATCGGTTGAAGAATGGGCGCC
GCATCATCCTGCTGGCCGAGGGTCGGCTGGTCAACCTGGGTTGTGCCATGGGCCACCCAGCTTCGTGATGAGTA
ACTCCTTACCAACCAGGTGATGGCGCAGATCGAGCTGTGGACCCATCCAGACAAGTACCCCGTTGGGGTTTCATT
TCCTGCCCAAGAAGCTGGATGAGGCAGTGGCTGAAGCCACCTGGGCAAGCTGAATGTGAAGTTGACCAAGCTAA
CTGAGAAGCAAGCCCAGTACCTGGGCATGTCCTGTGATGGCCCCCTTCAAGCCGGATCACTACCGCTACTGAGAGC
CAGGTCTGCGTTTCAACCTCCAGCTGCTGTCCTTGGCCAGGCCCCACCTCTCCTCCCTAAGAGCTAATGGCACCA
ACTTTGTGACTGGTTTGTGAGTGTCCCCCATCGACTCTCTGGGGCTGATCACTTAGTTTTTGGCCTCTGCTGCAG
CCGTCATACTGTTCCAAATGTGGCAGCGGGAACAGAGTACCCTCTTCAAGCCCCGGTCATGATGGAGGTCCCAGC
CACAGGGAACCATGAGCTCAGTGGTCTTGAACAGCTCACTAAGTCAGTCCTTCCTTAGCCTGGAAGCCAGTAGT
GGAGTCACAAAGCCCCATGTGTTTTGCCATCTAGGCCTTCACCTGGTCTGTGGACTTATACCTGTGTGCTTGTTTT
ACAGGTCCAGTGGTTCTTCAGCCCATGACAGATGAGAAGGGGCTATATTGAAGGGCAAAGAGGAACTGTTGTTTG
AATTTTCCTGAGAGCCTGGCTTAGTGCTGGGCCTTCTCTTAAACCTCATTACAATGAGGTAGTACTTTTAGTCC
CTGTTTTACAGGGGTTAGAATAGACTGTTAAGGGGCAACTGAGAAAGAACAGAGAAGTGACAGCTAGGGGTTGAG
AGGGGCCAGAAAAACATGAATGCAGGCAGATTTCTGTAATCTGCCACCACTTTATAACCAGATGGTTCCTTTCA
CAACCCTGGGTCAAAAAGAGAATAATTTGGCCTATAATGTTAAAAGAAAGCAGGAAGGTGGGTAAATAAAAAATCT
TGGTGCCTGG

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FIGURE 5737

MSDKLPYKVADIGLAAWGRKALDIAENEMPGLMRMRERYASASKPLKGARIAGCLHMTVETAVLIETLVTLGAEVQ
WSSCNIFSTQDHAAAAIAKAGIPVYAWKGETDEEYLWCIEQTLYFKDGPLNMILDDGGDLTNLIHTKYPQLLPGI
RGISEETTTGVHNLYKMMANGILKVPAINVND SVTKSKFDNLYGCRESLIDGIK RATD VMIAGKVAVVAGYGDVG
KGCAQALRGFGARV IITEIDPINALQAAMEGYEVTTMDEACQEGNIFVTTTGCIDIILGRHFEQMKDDAIVCNIG
HFDVEIDVKWLNENAVEKVNIPQVD RYRLKNGRRIIL LAEGR LVNLGCAMGHP SFVMSNSFTNQVMAQIELWTH
PDKYPVGVHFLPKKLDEAVAE AHLGKLVNKLTKLTEKQAQYLGMSCDGPFKPDHYRY

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FIGURE 5738

GGGAGAACCGTTTCGCGGAGGAAAGGCGAACTAGTGTTGGGATGGCCACCAACTGGGGGAGCCTCTTGCAAGGATAA
ACAGCAGCTAGAGGAGCTGGCACGGCAGGCCGTGGACCGGGCCCTGGCTGAGGGAGTATTGCTGAGGACCTCACA
GGAGCCCACCTTCTCGGAGGTGGTGAGCTATGCCCCATTACGCTCTTCCCCCTCACTGGTCCCCAGTGCCCTGCT
GGAGCAAGCCTATGCTGTGCAGATGGACTTCAACCTGCTAGTGGATGCTGTGTCAGCCAGAACGCTGCCTTCTGGA
GCAAACTCTTTCCAGCACCATCAAACAGGATGACTTTACCGCTCGTCTCTTTGACATCCACAAGCAAGTCCTAAA
AGAGGGCATTGCCCAGACTGTGTTCTTGGGCCTGAATCGCTCAGACTACATGTTCCAGCGCAGCGCAGATGGCTC
CCCAGCCCTGAAACAGATCGAAATCAACACCATCTCTGCCAGCTTTGGGGGCCTGGCCTCCCGGACCCCAGCTGT
GCACCGACATGTTCTCAGTGTCTTGAGTAAGACCAAAGAAGCTGGCAAGATCCTCTCTAATAATCCCAGCAAGGG
ACTGGCCCTGGGAATTGCCAAAGCCTGGGAGCTCTACGGCTCACCCAATGCTCTGGTGCTACTGATTGCTCAAGA
GAAGGAAAGAAACATATTTGACCAGCGTGCCATAGAGAATGAGCTACTGGCCAGGAACATCCATGTGATCCGACG
AACATTTGAAGATATCTCTGAAAAGGGGTCTCTGGACCAAGACCGAAGGCTGTTTGTGGATGGCCAGGAAATTGC
TGTGGTTTACTTCCGGGATGGCTACATGCCTCGTCAGTACAGTCTACAGAATTGGGAAGCACGTCTACTGCTGGA
GAGGTCACATGCTGCCAAGTGCCCAGACATTGCCACCCAGCTGGCTGGGACTAAGAAGGTGCAGCAGGAGCTAAG
CAGGCCGGGCATGCTGGAGATGTTGCTCCCTGGCCAGCCTGAGGCTGTGGCCCGCCTCCGCGCCACCTTTGCTGG
CCTCTACTCACTGGATGTGGGTGAAGAAGGGGACCAGGCCATCGCCGAGGCCCTTGCTGCCCCCTAGCCGGTTTGT
GCTAAAGCCCCAGAGAGAGGGTGGAGGTAACAACCTATATGGGGAGGAAATGGTACAGGCCCTGAAACAGCTGAA
GGACAGTGAGGAGAGGGCCTCCTACATCCTCATGGAGAAGATCGAACCTGAGCCTTTTGAGAATTGCCTGCTACG
GCCTGGCAGCCCTGCCCAGTGTTCCAGTGCATTTTCAGAGCTGGGCATCTTTGGGGTCTATGTCAGGCAGGAAAA
GACACTCGTGATGAACAAGCACGTGGGGCATCTACTTCGAACCAAAGCCATCGAGCATGCAGATGGTGGTGTGGC
AGCGGGAGTGGCAGTCTTGACAACCCATACCCTGTGTGAGGGGCACAACCAGGCCACGGGACCTTCTATCCTCTG
TATTTGTCATTCTCTCTAGCCCTCCTGAGGGGTATCCTCCTAAAGACCTCCAAAAGTTTTTATGGAAGGGTAAA
TACTGGTACCTTCCCCCAGCTTTCCATCTGAGGACCAGAAAAGTTGTGTCTCCCTTAGATGAGATCTAGACGCCC
CCAAATCCTTGAGATGTGGGTATAGCTCAGGGTAAGCTGCTCTGAGGTAAAGGTCCATGAACCCTGCCCCACTCC
TGTCAGCCCCCTCATCAGCCTTTTCAGCAGGTTCCAGTGCCTGACTTGGGATAGGACTGAGTGGTAGGAGGAGGGG
GAGTGGAGGGGCATAGCCTTTCCCTAATTCTGCCTTAAATAAACTGCATTGCTGT

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FIGURE 5739

MATNWGSLQDKQQLLEELARQAVDRALAEGLLRSTSQEPTSSEVVSYAPFTLFPSLVPSALLEQAYAVQMDFNLL
VDAVSQNAAFLEQTLSSSTIKQDDFTARLFDIHKQVLKEGIAQTVFLGLNRSDYMFORSADGSPALKQIEINTISA
SFGGLASRTPAVHRHVLVLSKTKEAGKILSNNPSKGLALGIAKAWELYGSPNALVLLIAQEKERNIFDQRAIEN
ELLARNIHVIRRTFEDISEKGS LDQDRRLFVDGQEI AVVYFRDGYMPRQYSLQNWEARLLERSHA AKCPDIATQ
LAGTKKVQQELSRPGMLEMLLPGQPEAVARLRATFAGLYSLDVGEEGDQAIAEALAAPS RFVLKPQREGGGNNLY
GEEMVQALKQLKDSEERASYILMEKIEPEPFENCLLRPGSPARVVQCI SELGIFGVYVRQEKTLMNKHVGHLLR
TKAIEHADGGVAAGVAVLDNPYPV

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FIGURE 5740

GGAAGAACCCGCAGCAGCTCCCAGGATGAACTGGTTGCAGTGGCTGCTGCTGCTGCGGGGGCGCTGAGAGGACAC
GAGCTCTATGCCTTTCCGGCTGCTCATCCCGCTCGGCCTCCTGTGCGCGCTGCTGCCTCAGCACCATGGTGCGCC
AGGTCCCGACGGCTCCGCGCCAGATCCCGCCCACTACAGGGAGCGAGTCAAGGCCATGTTCTACCACGCCTACGA
CAGCTACCTGGAGAAATGCCTTTCCCTTCGATGAGCTGCGACCTCTCACCTGTGACGGGCACGACACCTGGGGCAG
TTTCTCTCTGACTCTAATTGATGCACTGGACACCTTGCTGATTTTGGGGAATGTCTCAGAATTCCAAAGAGTGGT
TGAAGTGCTCCAGGACAGCGTGGACTTTGATATTGATGTGAACGCCTCTGTGTTTGAAACAAACATTTCGAGTGGT
AGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGCTGGGGTGGAAGTAGAGGCTGGATGGCCCTGTTCCGG
GCCTCTCCTGAGAATGGCTGAGGAGGCGGCCGAAAACCTCCTCCAGCCTTTCAGACCCCCACTGGCATGCCATA
TGGAACAGTGAACTTACTTCATGGCGTGAACCCAGGAGAGACCCCTGTACCTGTACGGCAGGGATTGGGACCTT
CATTGTTGAATTTGCCACCCTGAGCAGCCTCACTGGTGACCCGGTGTTCGAAGATGTGGCCAGAGTGGCTTTGAT
GCGCCTCTGGGAGAGCCGGTCAGATATCGGGCTGGTTCGGCAACCACATTGATGTGCTCACTGGCAAGTGGGTGGC
CCAGGACGCAGGCATCGGGGCTGGCGTGGACTCCTACTTTGAGTACTTGGTGAAAGGAGCCATCCTGCTTCAGGA
TAAGAAGCTCATGGCCATGTTCCCTAGAGTATAACAAAGCCATCCGGAACCTACACCCGCTTCGATGACTGGTACCT
GTGGGTTTCAGATGTACAAGGGGACTGTGTCCATGCCAGTCTTCCAGTCCTTGAGGSCCTACTGGCCTGGTCTTCA
GAGCCTCATTGGAGACATTGACAATGCCATGAGGACCTTCCTCAACTACTACACTGTATGGAAGCAGTTTGGGGG
GCTCCCGGAATTCTACAACATTCTCAGGGATACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAACT
TATTGAAAGCGCAATGTACCTCTACCGTGCCACGGGGGATCCACCCCTCCTAGAACTCGGAAGAGATGCTGTGGA
ATCCATTGAAAAAATCAGCAAGGTGGAGTGC GGATTGCAACAATCAAAGATCTGCGAGACCACAAGCTGGACAA
CCGCATGGAGTCGTTCTTCCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAACCAACTTCATCCA
CAACAATGGGTCCACCTTCGACACGGTGATCACCCCTATGGGGAGTGATCCTGGGGGCTGGGGGGTACATCTT
CAACACAGAAGCTCACCCCATCGACCCTGCCGCCCTGCACTGCTGCCAGAGGCTGAAGGAAGAGCAGTGGGAGGT
GGAGGACTTGATGAGGGAATTCTACTCTCTCAAACGGTGCAGGTGCAAATTTAGAAAAACACTGTTAGTTCGGG
GCCATGGGAACCTCCAGCAAGGCCAGGAACACTCTTCTACCAGAAAACCATGACCAGGCAAGGGAGAGGAAGCC
TGCCAAACAGAAGGTCCCACTTCTCAGCTGCCCCAGTCAGCCCTTACCTCCAAGTTGGCATTACTGGGACAGGT
TTTCCTAGACTCCTCATAACCACTGGATAATTTTTTTATTTTTATTTTTTTGAGGCTAAACTATAATAAATTGCT
TTTGGCTATC

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FIGURE 5741

MPFRLLIPLGLLCALLPQHAGAPGPDGSAPDPAHYRERVKAMFYHAYDSYLENAFPFDELRPLTCDGHDTWGSFS
LTLIDALDILLILGNVSEFQRVVEVLQDSVDFDIDVNASVFETNIRVVGGLLSAHLLSKKAGVEVEAGWPCSGPL
LRMAEEAARKLLPAFQPTGMPYGTVNLLHGVNPGETPVTCTAGIGTFIVEFATLSSLTGDPVFEDVARVALMRL
WESRSDIGLVGNHIDVLTGKWVAQDAGIGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDWYLVV
QMYKGTVSMPVFQSLEAYWPGLOSLIGDIDNAMRTFLNYYTVWKQFGGLPEFYNIPOQGYTVEKREGYPLRPELIE
SAMYLYRATGDPITLLELGRDAVESIEKISKVECGFATIKDLRDHKLDNRMESFFLAETVKYLYLLFDPTNFIHNN
GSTFDTVITPYGECILGAGGYIFNTEAHPIDPAALHCCQRLKEEQWEVEDLMREFYSLKRCSRKFQKNTVSSGPW
EPPAREPGTLFSPENHDQARERKPAKQKVPLLSCPSQPFTSKLALLGQVFLDSS

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FIGURE 5742

GACGGAAACCTTTTTAGGGAGTCCAAGGTACAGTCGCCGCGTGCGAGCTTGTTACTGGTTACTTGGCCTCATGGC
GGTCCGAGCTTCGTTTCGAGAACAACCTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACTGTCTGGTAGC
GATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATACCATCCCCGTGGTGCACGCGTC
TATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGGAACAGGCACGGTCTCCTGGTACCCAACAATACCAC
CGACCAGGAGCTGCAACACATTGCAACAGCCTCCCAGACACAGTGCAGATTAGGCGGGTGGAGGAGCGGCTCTC
AGCCTTGGGCAATGTCACCACCTGCAATGACTACGTGGCCTTGGTCCACCCAGACTTGGACAGGGAGACAGAAGA
AATTCTGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTG
TGTCTTCAGCAATCAGGGAGGGGCTGGTGCATCCCAAGACTTCAATTGAAGACCAGGATGAGCTGTCTCTCTTCT
TCAAGTCCCCCTTGTGGCGGGGACTGTGAACCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTG
GTGTGCCCTTCTGTGGCCTGGACACAACCAGCACAGAGCTGTCAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGC
CCAGCCTAGCACCATTTGCCACCAGCATGCGGGATTCCCTCATTGACAGCCTCACCTTGAGTCACCTTCCAAGTTGT
TCCATGGGCTCCTGGCTCTGGACTGTGGCCAACCTTCTCCACATTCCGCCCAATCTGTACCGGATGCTGGCAGGG
AGGTGGCAGAGAGCTCACTGGGACTGAGGGGCTGGGCACCCAACCCCTTTCCACCTGTGCTTATCGCCTGGATCT
ATCATTACTGCAAAAACCTGCTCTGTTGTGCTGGCTGGCAGGCCCTGTGGCTGCTGGCTGAGGGTTCTGCTGTCC
TGTGCCACCCCATTAAGTGCAGTTCCTCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5743

MAVRASFENNCEIGCFAKLTNTYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIGRMCVGNRHGLLVPNN
TTDQELQHIRNSLPDTVQIRRVEERLSALGNVTTENDYVALVHPDLDTREEILADVLEKVEVFRQTVADQVLVGS
YCVFSNQGGLVHPKTSIEDQDELSSLLQVPLVAGTVNRGSEVIAAGMVVNDWCAFCGLDTTSTELSVVESVFKLN
EAQPSTIATSMRDSLIDSLT

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FIGURE 5744A

CGTTCGGGCAGCGGCCTCTTGTTACCCGGGGCCCGCTTGCCTCAGCTTCTTGCTGCCGCCAGCACGCTAAGCTCC
AGTCGGCGCCGAAGGAGAGCTTCCCGACCCCTCGTGTCCAGTAGCCGCAATCCAGGCTGGGAGGGTGAGGCGCCG
CGCTCTGCCGCCCCCCCCCGCCCTCGCTCCCTGTGTCTGGCGGATTTGCACGTAATCTATCCGAAAGCCCAGTCC
CACCCGCCACCCGACTCTGGAGCTCCCATTTCTCAGGACCCTGCTGAAGTATCGCTTCTCAGCCGCTTCTCCAG
GCGCAGCTGCATTGCTTCTCGGTTTTTGCACCTCGCTGTGCACCGAGTTACTTTCCCGGCCCTCGTTGACACCG
TTCACAGGTGGCTGTTGGTCTTTAGTAAGGGTGTGTCTTCCCTGTCTGATCCTTAGCAAAAGTAGGAAGGTAGA
GTTGTTGGCAGAAATCCTGGGATAAGAGAATAGTTTCTTGGAAAGATCTGTGCCTCCAACCAGCAGAGAGGGATTG
AGCTTCATTGAACTCAACAGAGCCAACATTTTCATAGCACCATGTTCAAGAGGAGGTTGAAGTGGCATGGCAATGG
TTAGAGACCCTGCTGGGCGTGAACACCCTCTGGCTACCTAGGGACCTGTGGGCTACCACCTGGTGCCCTCATGG
AGACAAGAAGCCCTGGGTTGAACAACATGAAGCCCCAGTCACTGCAGCTGGTACTGGAAGAGCAGGTGCTGGCAC
TACAGCAGCAGATGGCAGAGAATCAGGCAGCCTCCTGGCGGAAGCTGAAGAACTCCAGGAGGCCAGCAGAGAC
AAGCAACCCTTGTGAGGAAGCTGCAGGCCAAGGTGCTGCAGTACCGAAGCTGGTGCCAAGAGCTGGAGAAGCGGC
TAGAAGCCACTGGAGGACCAATCCCCAGAGGTGGGAAAATGTGGAGGAGCCAAACCTGGATGAGCTGCTGGTCC
GATTGGAGGAGGAGCAACAGAGGTGTGAGAGTCTAGCAGAGGTGAACACCCAGCTTCGACTGCACATGGAAAAAG
CTGACGTGGTGAATAAAGCCCTTAGGGAAGATGTGGAAAACTGACAGTGGACTGGAGCCGGGCCCCGGGATGAGC
TAATGAGGAAGGAGAGCCAGTGGCAGATGGAGCAGGAGTTCTTCAAGGGCTACCTGAAAGGGGAGCACGGTCGCC
TTCTCAGTCTATGGCGGGAGGTTGTGACATTCCGACGCCACTTCTTGGAAATGAAGTCAGCTACTGACAGAGATC
TGATGGAGCTAAAAGCTGAGCATGTGAGGCTTTCAGGGTCTCTGTTGACCTGTTGTCTGCGCTTGACTGTGGGAG
CACAGTCTCGGGAACCCAACGGATCTGGAAGAATGGATGGGCGGGAGCCGGCCAGCTGCTGCTGCTACTAGCCA
AGACCCAGGAGCTGGAGAAGGAAGCCCATGAAAGGAGCCAGGAGTTAATACAGCTGAAGAGTCAAGGGGATCTGG
AGAAGGCTGAACCTCAGGACCGGGTGACCGAGCTCTCTGCTCTGTTGACCCAGTCTCAGAAGCAAAATGAAGATT
ATGAAAAGATGATAAAGGCTCTGAGAGAGACAGTGGAGATCCTGGAGACAAATCACACAGAATTAATGGAACATG
AAGCATCTCTTAGTAGGAATGCGCAAGAGGAGAAGTTGTCTTTACAGCAGGTGATCAAGGATATAACCCAGGTCA
TGGTGGAGAAGGGGACAATATAGCCCAAGGCTCTGGTCATGAGAATCTTTGGAATTGGACTCTAGTATCTTCT
CCCAGTTTGATTACCAGGATGCAGACAAGGCTCTTACTCTGGTGCCTTCAGTGTGCTGACTCGGAGACGCCAGGCTG
TGCAGGACCTAAGGCAGCAGCTTGCAGGCTGTCAAGAGGCTGTGAACCTGTTGCAACAGCAGCATGATCAGTGGG
AGGAAGAGGGCAAAGCCTTGAGACAGCGGCTGCAGAAGCTCACTGGGGAGCGGGACACTCTGGCAGGGCAGACTG
TGGACCTCCAGGGAGAGGTGGACTCTCTCAGCAAGGAGCGAGAGCTGCTGCAGAAGGCCAGGGAAGAGCTGCGGC
AGCAGCTGGAGGTGCTAGAGCAGGAGGCATGGCGCCTGCGAAGGGTAAATGTGGAGCTTCACTGCAGGGGGACT
CTGCCCAGGGCCAGAAGGAGGAACAGCAGGAGGAGCTGCACCTGGCTGTCCGGGAGAGGGAGCGTCTTCAGGAGA
TGCTGATGGGCCTGGAAGCCAAACAGTCAGAATCACTCAGTGAATGATCACTCTTCGGGAAGCCCTGGAGTCAA
GTCACCTGGAAGGGGAGTTACTGAGGCAAGAGCAAACGGAAGTGACCGCAGCGCTGGCTAGGGCAGAGCAGTCAA
TTGCAGAGCTGTGAGTTCTGAAAACACCCTGAAGACAGAAGTAGCTGATCTTCGGGCTGCAGCTGTCAAGCTCA
GTGCCTTAAATGAGGCTTTGGCGTTAGATAAAGTTGGGCTGAACCAGCAGCTTCTCCAGTTAGAGGAGGAGAACC
AGTCTGTGTGCAGCAGAATGGAGGCCGAGAGCAGGAGAAATGCTTTGCAGGTGACCTGGCGGAGGCAGAGA
AGAGGAGGGAAGCCCTGTGGGAAAAGAACTACCTGAGGCTCAGCTGCAGAAAGCTGAGGAGGCTGGGGCTG
AGCTGCAGGCAGATCTCAGGGACATCCAAGAAGAGAAGGAAGAAATTCAAAAGAACTAAGTGAGTCACGTCACC
AGCAGGAGGCAGCCACGACTCAGCTGGAGCAGCTACATCAGGAGGCAAAGCGACAGGAAGAAGTGCTTGCCAGGG
CAGTCCAGGAGAAGGAGGCCCTAGTACGAGAGAAAGCGGCTCTAGAGGTGCGGCTGCAGGCCGTGGAGCGTGACC
GGCAGGACCTCGCTGAACAACCTACAGGGGCTCAGCTCAGCCAAGGAGCTACTGGAGAGCAGTCTGTTTGAAGCCC
AACAACAAAATTCTGTGATAGAGGTACCAAGGGGCAGCTGGAGGTCCAGATTCAAACCTGTCACTCAAGCCAAGG
AAGTAATCCAAGGGGAAGTGAGGTGCCTGAAGCTGGAACCTGGACACTGAACGGAGTCAGGCAGAGCAGGAGCGGG
ATGCTGCAGCCAGACAGCTGGCCCAGGCTGAGCAAGAAGGGAAGACTGCCTTGGAGCAGCAGAAGGCAGCCCATG
AGAAAGAGGTGAACCAGCTCCGGGAGAAATGGGAGAAGGAGCGCTCCTGGCACCAGCAGGAGCTGGCAAAGGCTC
TGGAGAGCTTAGAAAGGGAAAAAATGGAGCTGGAATGAGGCTAAAGGAGCAGCAGACAGAAATGGAGGCCATCC
AGGCCCAGAGGGAAGAAGAACGGACCCAGGCAGAGAGTGCCCTATGCCAGATGCAGCTGGAAACAGAGAAGGAGA
GAGTATCCCTCCTGGAGACACTGCTGCAGACGCAGAAGGAGCTAGCAGATGCCAGCCAACAACTGGAACGACTGA
GGCAGGACATGAAAGTCCAGAAATTAAAGGAGCAGGAGACCCTGGGATACTACAGACCCAGCTCCAGGAGGCTC

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FIGURE 5744B

AACGGGAGCTGAAGGAGGCAGCCCGGCAGCACAGAGATGACCTTGCTGCCCTCCAAGAAGAGAGCAGCTCCCTGC
TGCAGGATAAGATGGACCTGCAGAAGCAGGTGGAGGACTTGAAGTCTCAGCTGGTGGCCAGGATGACTCCAGAG
GGCTGGTGGAGCAGGAGGTTTCAGGAGAAGCTGAGAGAGACCCAGGAGTATAACCGAATTCAGAAGGAGCTGGAGA
GAGAGAAAGCCAGCCTGACTCTGTCACTGATGGAAAAGGAACAGAGACTCCTTGTTTTACAAGAAGCTGACTCTA
TTTCACAACAAGAGCTGAGTGCCCTGCGCCAGGACATGCAGGAGGCCAGGGAGAACAGAAAGAGCTCAGTGCTC
AGATGGAATTACTAAGGCAAGAGGTGAAGGAAAAGGAGGCTGACTTTCTGGCCAGGAAGCACAGCTGCTGGAGG
AGCTGGAGGCGTCTCATATCACGGAGCAGCAGCTGCGAGCCTCCTTGTTGGGCCAGGAAGCCAAGGCAGCCCAAC
TACAGCTGCGACTGCGCAGCACAGAGAGCCAGCTAGAAGCGCTGGCCGCAGAGCAGCAGCCCGGAACCAGGCC
AGGCCAGGCCAGCTGGCCAGCCTCTACTCTGCCCTGCAGCAGGCCCTGGGGTCTGTTTGTGAGAGCAGGCCTG
AGCTGAGTGGTGGGGGAGACTCTGCTCCTTCCGTCTGGGGCCTTGAGCCAGACCAGAATGGAGCTAGGAGCCTCT
TTAAGAGAGGGGCCCTGCTGACTGCTCTCTCCGTGAGGCAGTAGCATCTGCCCTCCACAAGCTTCATCAAGACC
TGTGGAAGACTCAACAGACCCGGGATGTTCTGAGGGATCAGGTCCAGAACTGGAAGAGCGTCTAACTGATACTG
AGGCTGAGAAGAGCCAGGTCCACACAGAGTTGCAGGATCTGCAGAGACAGCTCTCCAGAATCAGGAAGAGAAAT
CCAAGTGGGAAGGAAAGCAGAACTCCCTAGAATCTGAGCTGATGGAACATACATGAAACTATGGCATCCTTACAGA
GTCGCTGCGGAGAGCAGAGCTACAGCGAATGGAAGCCAGGGTGAGCGAGAGTTACTTCAGGCAGCCAAGGAGA
ACCTGACAGCCAGGTGGAACACCTGCAAGCAGCTGTCTGTAAGCCAGGGCTCAGGCAAGTGCTGCTGGCATCC
TGGAAGAAGACCTGAGAACGGCTCGCTCAGCACTGAAGCTGAAAAATGAGGAAGTAGAGAGTGAGCGTGAGAGAG
CCCAGGCTCTGCAAGAGCAGGGCGAAGTGAAGGTGGCCCAAGGGAAGGCTCTGCAAGAGAATTTGGCCCTCCTGA
CCCAGACCCTAGCTGAAAGAGAAGAGGAGGTGGAGACTCTGCGGGGACAAATCCAGGAAGTGGAGAAGCAACGGG
AAATGCAGAAGGCTGCTTTGGAATTGCTGTCTCTGGACCTGAAGAAGAGGAACCAAGAGGTAGATCTGCAGCAAG
AACAGATTGAGGAGCTAGAGAAGTGTAGGTCTGTTTTAGAGCATCTGCCATGGCCGTCCAGGAGCGAGAGCAGA
AGCTGACTGTGCAGAGGGAGCAGATCAGAGAGCTCGAGAAGGATCGGGAGACTCAGAGGAACGTCTTGGAGCATC
AGCTTCTAGAACTTGAGAAGAAAGACCAATGATTGAGTCCAGAGAGGACAGGTTTCAGGACCTGAAAAAGCAGT
TGGTTACTCTGGAATGCCTGGCCCTGGAAGTGGAGGAAAACCATCACAGATGGAGTGCCAGCAAAAGCTGATCA
AGGAGCTGGAGGGCCAGAGGGAAACCCAGAGAGTGGCTTTGACCCACCTTACGCTGGACCTAGAAGAAAGGAGCC
AGGAGCTGCAGGCACAAAGCAGCCAGATCCATGACCTGGAGAGCCACAGCACCCTTCTGGCAAGAGAGCTGCAGG
AGAGGGACCAGGAGGTGAAGTCTCAGCGAGAACAGATCGAGGAGCTGCAGAGGCAGAAAGAGCATCTGACTCAGG
ATCTCGAGAGGAGAGACCAGGAGCTGATGCTGCAGAAGGAGAGGATTAGGTTCTCGAGGATCAGAGGACCCGGC
AGACCAAGATCCTGGAGGAGGACCTGGAACAGATCAAGCTGTCTTGGAGAGCGAGGCCGGGAGCTGACCACTC
AGAGGCAGCTGATGCAGGAACGGGCAGAGGAAGGGAAGGGCCCAAGTAAAGCACAGCGCGGGAGCCTAGAGCACA
TGAAGCTGATCCTGCGTGATAAGGAGAAGGAGGTGGAATGTGAGCAGGAGCATATCCATGAACTCCAGGAGCTCA
AAGACCAGCTGGAGCAGCAGCTCCAGGGCCTGCACAGGAAGGTAGGTGAGACCAGCCTCCTCCTGTCCAGCGAG
AGCAGGAAATAGTGGTCTGTCAGCAGCAACTGCAGGAAGCCAGGGAACAAGGGGAGCTGAAGGAGCAGTCACTTC
AGAGTCAACTGGATGAGGCCAGAGAGCCCTAGCCAGAGGGACCAGGAAGTGGAGGCTCTGCAGCAAGAACAGC
AGCAGGCCAGGGACAGGAGGAGAGGTTGAAGGAAAAGGCAGACGCCCTCCAGGGAGCTCTGGAGCAAGCCCATA
TGACACTGAAGGAGCGTTCATGGAGAGCTTCAGGACCACAAGGAACAGGCACGAAGGCTGGAGGAAGAGCTGGCAG
TGGAGGGACGGCGGGTCCAGGCCCTGGAGGAGGTGCTGGGAGACCTAAGGGCTGAGTCTCGGGAACAGGAGAAAG
CTCTGTTGGCCCTCCAGCAGCAGTGTGCTGAGCAGGCACAGGAGCATGAGGTGGAGACCAGGGCCCTGCAGGACA
GCTGGCTGCAGGCCAGGAGTGTCAAGGAACGGGACCAGGAGCTGGAAGCTCTGCGGGCAGAAAGTCACTCCT
CCCGGCATCAGGAGGAGGCTGCCCCGGGCCCCGGGCTGAGGCTCTGCAGGAGGCCCTTGGCAAGGCTCATGCTGCC
TGCAGGGGAAAGAGCAGCATCTCCTCGAGCAGGCAGAATTGAGCCGAGTCTGGAGGCCAGCACTGCAACCTGC
AAGCCTCCCTGGATGCTTGCAGGCACACAGTCCGGCAGCTGGAGGAGGCTCTGAGGATACAAGAAGGTGAGATCC
AGGACCAGGATCTCCGATACCAGGAGGATGTGTCAGCAGCTGCAGCAGGCACCTTGCCAGAGGGATGAAGAGCTGA
GACATCAGCAGGAACGGGAGCAGCTGCTGGAGAAGTCTCTGGCCAGAGGGTCCAAGAGAATATGATCCAAGAGA
AGCAGAATCTGGGGCAAGAGAGAGAAGAGGAGGAGATAAGGGGCCCTCATCAGAGTGTAAAGGAGCTACAGCTGA
CTCTAGCCCAAAAGGAACAGGAGATTCTGGAGCTGAGGGAGACCCAGCAAAGGAACAACCTGGAAGCCTTACCCC
ACAGCCACAAAACCTCCCAATGGAGGAACAATCTCTAAACTTGATTCTTTAGAGCCAGGCTGCAGCGGGAGC
TGGAGCGGCTACAGGCAGCCCTGAGACAGACAGAAGCCAGGAGATTGAGTGGAGGGAGAAGGCCAGGACTTGG

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FIGURE 5744C

CACTCTCCCTAGCGCAGACCAAGGCCAGTGTCTCAGCAGTCTGCAGGAGGTAGCCATGTTCCCTACAAGCCTCTGTCC
TGGAGCGGGACTCAGAACAGCAAAGGCTGCAGGATGAACTGGAGCTCACCAGACGGGCTCTGGAGAAGGAGCGGC
TACACAGCCCAGGTGCAACCAGCACAGCAGAACTGGGGTCCAGAGGGGAGCAGGGTGTGCAGCTGGGAGAGGTCT
CAGGAGTGGAGGCTGAGCCTAGTCCTGATGGAATGGAGAAGCAGTCATGGAGACAAAGGCTTGAACACCTGCAGC
AAGCAGTGGCCCGGCTGGAGATTGACAGGAGCAGGCTGCAGCGCCACAATGTCCAGCTGCGGAGTACCTTGGAGC
AGGTGGAGCGAGAACGGAGGAAGCTGAAGAGGGAGGCCATGCGTGCGGGCCAGGCAGGGTCCCTAGAGATCAGCA
AGGCCACGGCTTCTTACCCACACAGCAGGATGGGAGAGGACAGAAGAACTCAGATGCCAAGTGTGTGGCTGAAC
TGCAGAAAGAGGTGGTCCTGCTGCAAGCTCAGCTGACTTTGGAGCGGAAGCAGAAGCAGGACTACATCACCCGCT
CAGCACAGACCAGCCGTGAGCTAGCAGGCCTGCACCACAGCCTCTCACACTCACTTCTTGCCGTGGCCCAGGCCC
CTGAGGCCACTGTCTGGAGGCAGAGACCCGCAGGCTGGATGAGTCCCTGACTCAAAGTCTGACATCCCCAGGGC
CAGTCCTGCTACACCCCAGCCCCAGCACTACCCAAGCCGCCTCCAGGTAGCAGCCACAGCCAGGAGCACACAGAC
AGAAGACTGTGTTCATGGGTCTATGGCCCCTCCGCACACCTACAGGTTTGCCAAAGGAAAAGCCTGGCTCTGTTAGG
CACCCAGGAGCCCCAGGTCGGCGGGTGTTCAGGAAGAGGAAGTAAATCTGCAACCCTGGGGAGGACCCCAACT
CACCTGGGAATGAGGCAAATTGCATTTGCTTGCTCCCTATGGAATCACCCAGAGGGGTGCCTTGCCCTGGCTGAG
GGACATGTACTGCCTCTCATCTAGAATTTATTTTCCTAGCACTTCACCACCTCCTTCATCTTCTCCTTCAACAAT
AAACCCTGAGATCTTTGCATTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5745

CTGGCGTCCCCTTTCCGGCCGGTCCCCATGGAGGCGCTGGGGAAGCTGAAGCAGTTCGATGCCTACCCCAAGACT
TTGGAGGACTTCCGGGTCAAGACCTGCGGGGGCGCCACCGTGACCATTGTCAGTGGCCTTCTCATGTGCTACTG
TTCCTGTCCGAGCTGCAGTATTACCTCACCACGGAGGTGCATCCTGAGCTCTACGTGGACAAGTCGCGGGGAGAT
AAACTGAAGATCAACATCGATGTACTTTTTCCGCACATGCCTTGTGCCTATCTGAGTATTGATGCCATGGATGTG
GCCGGAGAACAGCAGCTGGATGTGGAACACAACCTGTTCAAGCAACGACTAGATAAAGATGGCATCCCCGTGAGC
TCAGAGGCTGAGCGGCATGAGCTTGGGAAAGTCGAGGTGACGGTGTGTTGACCCTGACTCCCTGGACCCTGATCGC
TGTGAGAGCTGCTATGGTGCTGAGGCAGAAGATATCAAGTGCTGTAACACCTGTGAAGATGTGCGGGAGGCATAT
CGCCGTAGAGGCTGGGCCTTCAAGAACCCAGATACTATTGAGCAGTGCCGGCGAGAGGGCTTCAGCCAGAAGATG
CAGGAGCAGAAGAATGAAGGCTGCCAGGTGTATGGCTTCTTGGAAGTCAATAAGGTGGCCGGAAACTTCCACTTT
GCCCCTGGAAGAGCTTCCAGCAGTCCCATGTGCACGTCCATGACTTGAGAGCTTTGGCCTTGACAACATCAAC
ATGACCCACTACATCCAGCACCTGTCATTTGGGGAGGACTATCCAGGCATTGTGAACCCCTGGACCACACCAAT
GTCAGTGCGCCCAAGCCTCCATGATGTTCCAGTACTTTGTGAAGGTGGTGCCCACTGTGTACATGAAGGTGGAC
GGAGAGGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGAAGGTTGCCAATGGGCTGTTGGGCGACCAA
GGCCTTCCCGGAGTCTTCGTCCTCTATGAGCTCTCGCCCATGATGGTGAAGCTGACGGAGAAGCACAGGTCCTTC
ACCCACTTCCTGACAGGTGTGTGCGCCATCATTGGGGGCATGTTACAGTGGCTGGACTCATCGATTTCGCTCATC
TACCACTCAGCACGAGCCATCCAGAAGAAAATTGATCTAGGGAAGACAACGTAGTCACCCCTCGGTGCTTCCTCTG
TCTCCTCTTTCTCCCTGGCCTGTGGTTGTCCCCCAGCCTCTGCCACCCTCCACCTCCTCGGTCAGCCCCAGCCCC
AGGTTGATAAATCTATTGATTGATTGTGATAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5746

MEALGKCLKQFDAYPKTLEDFRVKTCGGATVTIVSGLLMLLFLSELQYYLTTEVHPELYVDKSRGDKLKINIDVL
FPHMPCAYLSIDAMDVAGEQQLDVEHNLFKQRLDKGIPVSSEAERHELKGVEVTVFDPDSLDPDRCESCYGAEA
EDIKCCNTCEDVREAYRRRGWAFKNPDTIEQCRREGFSQKMQEQKNEGCQVYGFLEVNVAGNFHFAPGKSFQQS
HVHVHDLQSFGLDNINMTHYIQHLSFGEDYPGIVNPLDHTNVTAPQASMMFQYFVKVPTVYMKVDGEVLRITNQF
SVTRHEKVANGLLGDQGLPGVFVLYELSPMMVKLTEKHRSFTHFLTGVCAIIGGMFTVAGLIDSLIYHSARAIQK
KIDLGKTT

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FIGURE 5747

ACCAGGCAAATATTCCATTACAGCATTACAAAGATGGATGTTCTTCAGTTCCCTAGAAGGAATCCCAGTGGATGAAA
ATGCTGTACATGTTCTTGTTGATAACAATGGGCAAGGTCTAGGACAGGCATTGGTTCAGTTTAAAAATGAAGATG
ATGCACATGGGCCCCACTGCGTGACCTTGGTTTCAGCTGTCCATTTCTGTGACCATCTCATTGACAAGGACATCGGC
TCCAAGTCTGACCCACTCTGCGTCCTTTTACAGGATGTGGGAGGGGGCAGCTGGGCTGAGCTTGGCCGGACTGAA
CGGGTGCGGAACTGCTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAGTACCGCTTTGAGACAGTCCAGAAG
CTACGCTTTTGGAACTATGACATAGACAACAAGACGCCAGAGCTGAGGGATGATGACTTCCTAGGGGGTGCTGAG
TGTTCCCTAGGACAGATTGTGTCCAGCCAGGTACTGACTCTCCCCTTGATGCTGAAGCCTGGAAAACCTGCTGGG
CGGGGGACCATCACGGTCTCAGCTCAGGAATTAAAGGACAATCGTGTAGTAACCATGGAGGTAGAGGCCAGAAAC
CTAGATAAGAAGGACTTCCTGGGAAAATCAGATCCATTTCTGGAGTTCTTCCGCCAGGGTGATGGGAAATGGCAC
CTGGTGTACAGATCTGAGGTCATCAAGAACAACCTGAACCCTACATGGAAGCGTTTCTCAGTCCCCGTTTCAGCAT
TTCTGTGGTGGGAACCCACAGCACACCCATCCAGGTGCAATGCTCCGATTATGACAGTGACGGGTCACATGATCTC
ATCGGTACCTTCCACACCAGCTTGGCCCAGCTGCAGGCAGTCCCGGCTGAGTTTGAATGCATCCACCCTGAGAAG
CAGCAGAAAAAGAAAAGCTACAAGAACTCTGGAACCTATCCGTGTCAAGATTTGTCGGGTAGAAACAGAGTACTCC
TTTCTGGACTATGTGATGGGAGGCTGTCAGATCAACTTCACTGTGGGCGTGGACTTCACTGGCTCCAATGGAGAC
CCCTCCTCACCTGACTCCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAGTGTG
GGCAGCGTGGTTTCAGGACTATGACTCAGACAAGCTGTTCCCTGCATTTGGATTTGGGGCCAGGTTCCCCCTGAC
TGGCAGGTCTCGCATGAATTTGCCTTGAATTTCAACCCAGTAACCCCTACTGTGCAGGCATCCAGGGCATTGTG
GATGCCTACCGCCAAGCCCTGCCCCAAGTTCGCCTCTATGGCCCTACCAACTTTGCACCCATCATCAACCATGTG
GCCAGGTTTGCAGCCCAGGCTGCACATCAGGGGACTGCCTCGCAATACTTCATGCTGTTGCTGCTGACTGATGGT
GCTGTGACGGATGTGGAAGCCACACGTGAGGCTGTGGTGCCTCGAACCTGCCCATGTCAGTGATCATTGTG
GGTGTGGGTGGTGTGCTGACTTTGAGGCCATGGAGCAGCTGGACGCTGATGGTGGACCCCTGCATACAGTTCTGGG
CAGGCTGCTGCCCCGCGACATTGTGCAGTTTGTACCCTACCGCCGTTCCAGAATGCCCCCTCGGGAGGCATTGGCA
CAGACCGTGTGCGCAGAAGTGCCACACAACCTGGTCTCATACTTCAGGGCCCAGGGTTGGGCCCCGCTCAAGCCA
CTTCCACCCTCAGCCAAGGATCCTGCACAGGCCCCCAGGCCTAGGTTCCCTTGGAGGCTGTGGCAAGTCCTCAA
TCCTGTGTCCCAGAGGTCCCTXTGGGCCACAACCCAACCTTCTCACTCTCCTCAGTGCTAGCACTTTGTATTTT
TTGATACTTTTATACTTGTCTTCTGCTTTTGTGCTGCTTTGATCCCACCTTTGCTCCTGACAACCCTCATTCAATAA
AGACCAGTGAAGACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5748

MAHCVTLVQLSISCDHLIDKDIGSKSDPLCVLLQDVGGGSAELGRTERVRNCSSPEFSKTLQLEYRFETVQKLR
FGIYDIDNKTPELRDDDFLGGAECSLGQIVSSQVLTLPMLKPGKPAGRGTTITVSAQELKDNRVVTMEVEARNLD
KKDFLGKSDPFLEFFRQGDGKWHLVYRSEVIKNNLNPTWKRFVVPVQHFCGGNPSTPIQVQCSDYDSGSHDLIG
TFHTSLAQLQAVPAEFECIHPEKQQKKKSYKNSGTIRVKICRVETEYSFLDYVMGGCQINFVGVDFTGSDNGDPS
SPDSLHYLSPTGVNEYLMALWSVGSVVQDYDSKLFPAFGFGAQVPPDWQVSHEFALNFNPSNPYCAGIQGIVDA
YRQALPQVRLYGPTNFAPIINHVARFAAQAAHQGTASQYFMLLLLTGAVTDVEATREAVVRASNLPMSVIVGV
GGADFEAMEQLDADGGPLHTRSGQAAARDIVQFVPYRRFQNAPREALAQTVLAEVPTQLVSYFRAQGWAPLKPLP
PSAKDPAQAPQA

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FIGURE 5749

GACGCGGGGCCGGAACGCGAAGAGGGTGGTGGAGTCGGGCTACCCACTGATTTTCCTTCCCTTACTTCCCCTGAG
CCCTTGGGGCCACTTCCCAGCCTACCGCTTCCGTCCCCGCCCCGACTCTTGGGCCAGCGCCTGGGCCCACACTTTC
CTATCCCCCGCAGATGCCGGTGGCCGTGGGTCCCTACGGACAGTCCCAGCCAAGCTGCTTCGACCGTGTCAAAAT
GGGCTTCGTGATGGGTTGCGCCGTGGGCATGGCGGCCGGGGCGCTCTTCGGCACCTTTTCCTGTCTCAGGATCGG
AATGCGGGGTCGAGAGCTGATGGGCGGCATTGGGAAAACCATGATGCAGAGTGGCGGCACCTTTGGCACATTTCAT
GGCCATTGGGATGGGCATCCGATGCTAACCATGGTTGCCAACTACATCTGTCCCTTCCCATCAATCCCAGCCCAT
GTACTAATAAAAAGAAAGTCTTTGAGT

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FIGURE 5750

GGACGCAGAGAAGCCAGAGACTTTCGCTTCCGGCTGCCGCAGGCGCTTCGCTGGTGCAGGTAAGCTCCGCACACT
CTCGGCCGGTCCCGAGTCCGACTCCCTCAAGGGTGACGCGAGCTCTGCCCTTTAACCGGAAACGTCTCCCTGCTC
ACCCACCCCCGCGCAGACGCAGTGCTGAGCACACAGCTACCGGACAAAGAGTGACGCCCGGAGCTGGAGTTATG

GCGGCTACGGAGCCGATCTTGCGGGCCACTGGGAGTCCCGCGGCGGTGCCACCGAGAAACTGGAAGGAGCCGGT
TCGAGCTCAGCCCCTGAGCGTAACTGTGTGGGCTCCTCGCTGCCAGAGGCCTCACCGCCTGCCCCTGAGCCTTCC
AGTCCCAACGCCGCGGTCCCTGAAGCCATCCCTACGCCCCGAGCTGCGGCCTCCGCGGGCCCTGGAGCTGCCTCTC
GGGCCCCGACCCGTGAGCGTAGCGCTCAGGCCGAAGCTGAAGCGCGCTCCACACCAGGCCCCGCCGGCTCTAGA
CTCGGTCCCGAGACGTTCCGCCAGCGTTTCCGGCAGTTCCGCTACCAGGATGCGGCGGGTCCCCGGGAGGCTTTC
CGGCAGCTGCGGGAGCTGTCCCGCCAGTGGCTGCGGCCTGACATCCGCACCAAGGAGCAGATCGTGAGATGCTG
GTGCAAGAGCAGCTGCTCGCCATCCTGCCCGAGGCGGCTCGGGCCCCGGCGGATCCGCCCGCCGACGGATGTGCGC
ATCACTGGCTTGAGCGGTGGAGCTGCGGGCGGCCAGGGCCGGGCGCTCTGTGCGGACTGGGGCCATGATCGGGCCC
GGGGGCTGAGCCTGGGACCCACCCCGTGTTAATGAAAAATGAGTTTGGCAGCGCCAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 5751

MAATEPILAAATGSPAAVPPEKLEGAGSSSAPERNCVGSSLPEASPPAPEPSSPNAAVPEAIPTPRAAASAALELP
LGPAPVSVAPQAEAEARSTPGPAGSRLGPETFRQRFQFRYQDAAGPREAFRLRELSRQWLRPDIRTKEQIVEM
LVQEQLLAILPEAARARRIRRRTDVRITG

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FIGURE 5752

CTTTTTCCTTTCCTGATTCTTGTGTATGTGTGGCTGGGCCGCCCCCTCTTCTCGGCTCAGAGTCACGGAGTGCCT
TGAAC TAGGCCACCTCGCCGGGGCGGCTGGTTCTCTGTTTGTGGGACGCTGGTGTCTCTGGAGGCCCTTCCTGA
GAAGCCGTCGCCAGAGTTACGTCGCGGTTTTCTTAACCTTTAGAGCCTGGGGGCCGAGACCCTGATTGCACTCGA
CCTGGCTCTGCCCTACTCTCTGCGTGACTTCCACTGTTTCATCAAAGAAAAAGGGTTCTTTTGGTCACCCACCCT
GGCCCCATGGCTGCCGTGCAGATGGATCCTGAGCTAGCCAAGCGCCTCTTCTTTGAAGGGGCCACTGTGGTCATC
CTGAACATGCCCAAGGGAACAGAGTTTGGGATTGACTATAACTCCTGGGAGGTCGGGGCCCAAGTTCCGGGGCGTG
AAGATGATCCCTCCAGGCATCCACTTCTCCACTACAGCTCTGTGGACAAGGCTAATCCGAAGGAAGTAGGCCCT
CGTATGGGTTTTCTTCTTAGCCTGCACCAGCGGGGCTGACAGTGCTGCGCTGGAGCACACTCAGGGAAGAGGTA
GACCTGTCCCCAGCCCCAGAGTCTGAGGTGGAGGCCATGAGGGCCAACCTCCAGGAGCTGGACCAGTTCTTGGGG
CCTTACCCATATGCCACCCTGAAGAAGTGGATCTCACTACCAACTTCATCAGCGAAGCCACAGTGGAGAAGCTA
CAGCCCGAGAATCGACAGATCTGTGCCTTTTCCGATGTGCTACCTGTGCTCTCCATGAAGCACACCAAGGACCGC
GTGGGGCAGAATCTACCCCGCTGTGGCATTGAGTGCAAAAGCTACCAAGAGGGCCTGGCCCGGCTACCAGAGATG
AAGCCAGAGCCGGGACAGAGATCCGCTTCTCAGAGCTGCCACGCAGATGTTCCAGAGGGTGCCACGCCAGCT
GAGATAACCAAGCACAGCATGGACCTGAGCTATGCCCTGGAGACTGTGCTCAACAAGCAGTTCCCCAGCAGCCCC
CAGGATGTGCTTGGTGAACCTCCAGTTTGCTTTTGTGTGCTTCTGCTGGGGAATGTGTACGAGGCATTTGAGCAT
TGGAAGCGGCTCCTGAACCTCCTGTGCCGCTCAGAAGCAGCCATGATGAAGCACCACACCCCTCTACATCAACCTC
ATCTCCATCCTGTACCACCAGCTTGGTGAGATCCCGCTGACTTCTTCGTAGACATTGTCTCCCAAGACAACCTC
CTCACCAGCACCTTACAGTTTTCTTTCTCTGCTGCAGCATTGCCGTGGATGCCACCCTGAGAAAGAAAGCT
GAAAAGTTCCAAGCTCACCTGACCAAGAAGTTCCGGTGGGACTTTGCTGCGGAACCTGAGGACTGTCCCCGGTG
GTGGTGGAGCTCCCTGAGGGCATCGAGATGGGCTAACTCGGGGAGCGCTCTCAGCTGCGAGGGGGCCCCCTTCCAC
AGGGCTGCAGTCTGGCCTCTCCATTTACTTCTTCCCATCCTGGGACCTGCCAGGGCAGCAATCTCTCCAGGTCC
TGCAAAGATGGAGCCAGAATTCCCTTTTTTCACTGATAAATATATTTCTTCATTGCCAAAGAGGCTGTACCCATCC
TGAAGGCACATTTGTGGGTTCCCCATCAGCCAGGCCTTGGTGCTAACCTGGCTGAATTCACACAGGCTCTTACA
CACACAGCTCCTAGGAGACATCTGCCTACACGGCAACCATATTTCTCTGAATGAGAAGGAATTGAACCAAAG
TCCAAGAAAGAACTGATTGCTTGTTCCATAGGAGCTTAGGAAACAAGAAACCCTGGATTGCCAGGGGGTCTGAG
AAGTTGGTTGGTGACTTTTTTTTGGGTTAAATGAAGGGTGATGGGGAGATCAGCCCGAATTGCCGCTGCCTCTT
GCTAAATAGGAGCAGAGGACTTGGCCTGCAGCTCCTTGGGAGCCCTTGATTGGGAAGAGAGTTTCAAGGGAGGCA
GCTGGATTCAATCTAGCAGGTGGTCAGCTTTCAGCTTCTCCATCGAAATCCCATTCTCCTGTCCAGAGGCCAGT
GGGTATCTCCCAAGGTGGGTGTGGACCCTGGCCTCAGAGGCCTTGCTGGTGCTGTACCTCCCACCTGTTCCAT
TCCGAGGCCTCACCCAGAAGTGGGACCCTCCCCTTCTCACCAGAGCCACCGTGACTGTTTCTGATGACCTGGAG
AGTCAACAACAACCAGAAAGGTTTCTGCCCAGAGCAGGCTTCTTAAGGCCTTTACGAAGTTTTGTGCCCTTCCAAG
TGCTGAAGAAGACCTGGTCAGCCTAAATCTTCCAGTCCCGCTGTGGAGCTGTACAGTACCCGGAGTAATGAGCTC
CTGGTTTCTCGGGAGTCCTTCGTGCTGTGTGGCAGGGTTCTCTCTAGACAAGTACACAGGCCCTGCCACCCTGA
CATCAAACCTGTTGTACTATGATCACAGTCCCTGTGCCATCCTTTTCCAAGACTGGGGCTCACACCATGTTTTTGA
ATGAGAATCCCTGCTGTTGAGACTTTTGCTTCCACTTGTTTCTTGGAGATGTTTTTCCAAGAGCATAATGTAC
ATTAAAGTCTTCGAGTTGAGACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5753

MAAVQMDPELAKRLFFEGATVVILNMPKGTEFGIDYNSWEVGPVKFRGVKMIPPGIHFHLYSSVDKANPKEVGPRM
GFFLSLHQRLTVLRWSTLREEVDLSPAPESEVEAMRANLQELDQFLGPYPYATLKKWISLTNFI SEATVEKLQF
ENRQICAFSDVLPVLSMKHTKDRVGQNLPRCGIECKSYQEGLARLPENMKPRAGTEIRFSELPTQMFPEGATPAEI
TKHSMDLSYALETVLNKQFPSSPDVLGELQFAFVCFLNGVYEAFEHWKRLNLLCRSEAAMMKHHTLYINLIS
ILYHQLGEIPADFFVDIVSQDNFLTSTLQVFFSSACSI AVDATLRKKAKEFQAHLTKKFRWDFAAEPEDCAPVVV
ELPEGIEMG

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FIGURE 5754

GGAAGCCCCACCCACCAGAAGCCAAGATGTCCAGCAAGCGGGCCAAAGCCAAGACCACCAAGAAGCGGCCACAGC
GGGCCACATCCAATGTCTTCGCAATGTTTGACCAGTCCCAGATCCAGGAGTTTAAGGAGGCTTTCAACATGATTG
ACCAGAACCGTGATGGCTTCATTGACAAGGAGGACCTGCACGACATGCTGGCCTCGCTGGGGAAGAACCCACAG
ACGAATACCTGGAGGGCATGATGAGCGAGGCCCCGGGGCCCATCAACTTCACCATGTTTCCTCACCATGTTTGGGG
AGAAGCTGAACGGCACGGACCCCGAGGATGTGATTGCAACGCCTTTGCCTGCTTCGACGAGGAAGCCTCAGGTT
TCATCCATGAGGACCACCTCCGGGAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGACGAGA
TGTACCGGGAGGCACCCATTGATAAGAAAGGCAACTTCAACTACGTGGAGTTCACCCGCATCCTCAAACATGGCG
CCAAGGATAAAGACGACTAGGCCACCCAGCCCCCTGACACCCAGCCCCCGCCAGTCACCCCTCCCCGCACACA
CCCGTCCATACCAGCTCCCTGCCCATGACCCTCGCTCAGGGATCCCCCTTTGAGGGGTTAGGGTCCCAGTTCCCA
GTGGAAGAAACAGGCCAGGAGAAGTGCCTGCCGAGCTGAGGCAGATGTTCCACAGTGACCCAGAGCCCTGGGC
TATAGTCTCTGACCCCTCCAAGGAAAGACCACCTTCTGGGGACATGGGCTGGAGGGCAGGACCTAGAGGCACCAA
GGGAAGGCCCCATTCCGGGGCTGTTCCCCGAGGAGGAAGGGAAGGGGCTCTGTGTGCCCCCAGGAGGAAGAGGC
CCTGAGTCCTGGGATCAGACACCCCTTCACGTGTATCCCCACACAAATGCAAGCTCACCAAGGTCCCCTCTCAGT
CCCCTTCCCTACACCCTGACCGGCCACTGCCGCACACCCACCCAGAGCACGCCACCCGCCATGGGAGTGTGCTCA
GGAGTCGCGGGCAGCGTGACATCTGTCCCAGAGGGGGCAGAATCTCCAATAGAGGACTGAGCACT

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FIGURE 5755

MSSKRAKAKTTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLEGMMS
EAPGPINFMTMFLTMFGEKLNQDTPEDVIRNAFACFDEEASGFIHEDHLRELLTTMGDRFTDEEVDEMYREAPIDK
KGNFNYVEFTRILKHGAKDKDD

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FIGURE 5756

GCGGGGGGTGGGCGCAGCTCGTCGCGCTCCGCACAAAGTTTGTCTTCTCCCTCCGGGCGGGTGGGGGAGGGCGCA
GAGGGCGCGGGGGGAGGAGAGGGGATCTGACGTCAGGCCGCGAGGTGCTTTCCAGCCGCGAGCTGTCAGGCCGAG
TGTCAGGCCCGGGCAGGTTTACCCAAGGTCCAGCCTAGCCCCTAGGCACCATGTGCGACAGTGATCTAGGTGAGGA
CGAAGGCCTCCTCTCCCTGGCGGGCAAAGGAAGCGCAGGGGGAACCTGCCCAAGGAGTCGGTGAAGATCCTCCG
GGACTGGCTGTACTTGCACCGCTACAACGCCTACCCCTCAGAGCAGGAGAAGCTGAGCCTTTCTGGACAGACCAA
CCTGTGAGTGCTGCAAAATATGTAAC TGGTTCATCAATGCCCGCGGGCGGCTTCTCCAGACATGCTTCGGAAGGA
TGGCAAAGACCCTAATCAGTTTACCATTTCCCGCGCGGGGGTAAGGCCTCAGATGTGGCCCTCCCCGTGGCAG
CAGCCCCCTCAGTGCTGGCTGTGTCTGTCCCAGCCCCACCAATGTGCTCTCCCTGTCTGTGTGCTCCATGCCGCT
TCACTCAGGCCAGGGGAAAAGCCAGCAGCCCCCTTTCCACGTGGGGAGCTGGAGTCTCCCAAGCCCCCTGGTGAC
CCCTGGTAGCACACTTACTCTGCTGACCAGGGCTGAGGCTGGAAGCCCCACAGGTGGACTCTTCAACAGCCACC
ACCCACACCCCCAGAGCAGGACAAAGAGGACTTCAGCAGCTTCCAGCTGCTGGTGGAGGTGGCGCTACAGAGGGC
TGCTGAGATGGAGCTTCAGAAAGCAGCAGGACCCATCACTCCCATTACTGCACACTCCCATCCCTTTAGTCTCTGA
AAATCCCCAGTAGGCATCTGCCAAGAAGGGTGCTGAAGGCTCCAGCCAGCTGTCTGGGTTTCCGTTTTGGTTCC
CTTTCATACAGAGGGTTTTCTATGGATCACTGCCAAACATTGGGATCATCTCCTCTGTCCAGAGGTCTTCAACAG
GAAGATGCCAGCTGGCACCCTGCACTGTGATGGGGGCCCTCTCCTCTGCTGACTCTGCCGTTTCTCCAGGCCTC
CGCTCAGTGATGAGACCAAGAGATCGGAGACAAGCATGGTGCTGCTGCTTCTGCTGCTTCTCCAGAAAATCCCTG
GGACACCTTTGTTCCAGCCTGGTTTCCCTGGGCTGGGCTCAGGAAAGCTGCCAAATTCAGTCTATGTTGGGTCCA
AGCTGCCCCCTGTGCTGTTTCTGTCAAGCCAGGTGTGGACATTCCAAGTTTCATATGCGTGAACAAAAGAAAAGAGG
AACCAGTGATGTAAACAGAACCGACTCCAGTTGAATGTTTAGATTTTTTGCTAAACTGTTTTCTTTTTCCCTTTT
TTGCTGTGGTTTTGCATTACGGCAGTAGTTAGCCAGGTGTGGGGAACGAGAGTGCATGCATGATAGCGTTCTG
GTGAGCTGGGAAGGACCCACCCTGCCACTGAGGATTGTTTTGGAAGAAAGGAATATTTTTATCTTGGGGACCAG
CTAAGTCTCTGCGAGTAGTGTGAAATTCCAAATGGTTGTTTTATCATTGGTTTGGTTTACCAAAAAAAGGCAGGG
AAAAAAAAAAAAAACAACCGTATGAGCGCATTGGCTTGTCTGCCGACGGCACAGAAGGGTAGAAAGCCACAGCAG
GGGGCAGTCCAGCAGACTCTGACTCACTTTCTAGGCACCTAGCAGAGAAAGATAAGATCAAAAGGTGTTTGGTT
TTTTTTTTTAATTTTTATTGTAGTTTTTTTTGGGTGGGTGGGGGAAGTAACTAGACTGAAGCGATGGATTTTTTTT
TTCTTTTTTTTTCTTTAGTGTTTTTCCCTTTGTTCTTGAACACTTTTGCCCTGCAGCCTCAGTTTTGAATTCTTTT
AGCAACTTGGATTAGAGGGGCCCATATGTCAGAAGCTCCAGCACCTCCTACTTGGGAGAAAAGTGAGCCATCTG
CTGGTCAGGAAGTCTCCAGAGAGGCAGCTTTTCCACAATGGTGGCAGGAACTTTGGGGAAAGCAGGAATGGT
GTCCACTGCTGCCGAGGAAGTGCCTTCAGAGAAGGTGGGGCTGGAAAAGGGTTAGAAGCCTCCTAGCTGGGATTG
TCTTTGTTTACCTTTCTTTAAATTAGAATTACAGAAGCCCCCTGCCAGTGAACAGATAACGATTGGTCTTATGC
TCCTCCCTTTCCCCCATTTTTCTTTTGCTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTTGAGACA
GAGTCATGCTCTGTACCCGGGCTGGAGTGCAGTGGTGCATCTCAGCTCACTGTAACCTCCGCCCTCCCGGGTTC
AAGCAATTATTTGCCTCAGCCTCCCGAGTAGCTGGGATTATAGGCACCCGCCACCATGTCTGGCTTTTAGTAGAG
ACGGGGTTTACCATCTTGGCCAGGCTGGTCTTGGAACTCCTGACCTCGTGAGCCACCACGCCAGCCTCTTTTG
CTGTTTCATTGCTGACAGTGTTCAACAATATGCCCATCTTTATATATCCTAAGAAACACTAATCCTAGGTTATT
GCTAGCCAAAATATTTTTGTCTGAGTAGTGCTACTGGGCCAAAAGATAGATCAGGACGACAGCCTTTAGTTTTT
CTGAAATCACCAGGTGAGGCACAAGGAGAAAAGGTTCTGGATACTGACTAAGTGGGTGGGTGGATCTAGCCAG
GAGAAAGACAGTAACATGTGTTCTGTACTTTCTGGGAAGATCCCTGAAGCCATCACAGAGGCTCCCCAACTTCTG
AGTCGCCCCTCTGTTGCTGTGGGAGTGTGAACGGATCGCTGAAGGAGAGGGAGCTTTGCTCTCTCTAGGTGGGCA
AGTTTTCTGGGCTCTCTGTGTGCTTCCCTCTGGCTTCTTCTCCCGTGCCCTCTCCCCGTGTGCCCCAGGGGGA
TCAGGGATCCTCACCTCCTGAGGCCAGTGGGGAAGAATGAACATGGCTTCATCCAGGTTAACTGATGCTGCCA
TTTGCCAGCCTCTTCCATCCAGCCCTGTGAGTGGCCAGGTCTGGTGCAACTGCTGCAGGATGCCTGTAGTA
GGGAAGTCTGGAAGTGTATTGGGCTGAGGTGGGATTTTCCCTCCCAAGTGCAGTGCAGCAATGGAGGGTGGTGA
GGGAGCCATGCTGCTGAATTCTGGTTGGCATTTCCTCATTATGTAAATGGGGTGTGGGTAGGGCAGACTCTGC
TTGGGTTTGGTTGTAAGATAAACCTGGAGGAGAAGCACAGTTGTCCATTGAATTATTTGAGCAAAACTACTGT
AAATAACTTTTTTGTCTTTTGTCAAATAAAATTTTTTTTTTGTTTTTTTAAGCAG

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FIGURE 5757

AGAGTTTTCGGAGGCGGTGACCGTGACGTAGAAAGGTGGAGACCGCTTCACCCTGATCAGGGAGTATCGGCTGCGGG
TGCGCAAGGCGTCCAGGAGTGACCTGGGGCTGTGGAGAGCGACCCGTGGCCTTGTGTTTCAGAGTTTACCACCTA
GGATGACTTCAGTGACTAGATCAGAGATCATAGATGAAAAAGGACCAGTGATGTCTAAGACTCATGATCATCAAT
TGGAATCAAGTCTCAGTCCTGTGGAAGTGTTTGCTAAAACAATCTGCCAGTTATCAAGACAGGAGGCAATCCTGG
CGGCGAGCAAGTATGAAAGAAACGAACCGGCGGAAGTCGCTGCATCCCATTACCAGGGCATCACAGAGCTCAGC
CGGTCTATCAGTGTCGATTTAGCAGAAAGCAAACGGCTTGGCTGTCTCCTGCTTTCAGTTTCCAGTTCTCTATT
CAGAAACTTGAACCTTTCCTAAGGGACACTAAGGGCTTCAGTCTTGAAAGTTTTAGAGCCAAAGCATCTTCTCTT
TCTGAAGAATTGAAACATTTTGCAGACGGACTGGAACCTGATGGAACCTACAAAAATGTTTTGAAGATTCAAAT
GGAAAAGCATCAGATTTTTCTTTGGAAGCATCTGTGGCTGAGATGAAGGAATACATAACAAAGTTTTCTTTAGAA
CGTCAGACTTGGGATCAGCTCTTGCTTCACTACCAGCAGGAGGCTAAAGAGATATTGTCCAGAGGATCAACTGAG
GCCAAAATTACTGAGGTCAAAGTGGAACCTATGACATATCTTGGGTCTTCTCAGAATGAAGTTCTTAATACAAAA
CCTGACTACCAGAAAAATTACAGAACCAGAGCAAAGTCTTTGACTGTATGGAGTTGGTGAATGGATGAAGTGAAG
GATCAGTGAAACAGCTGCAGGCCTTTATGGATGAAAGTACCCAGTGCTTCCAGAAGGTGTCAGTACAGCTCGGAA
AGAGAAGCATGCAACAATTAGATCCCTCACCAGCTCGAAAACTGTTGAAGCTTCAGCTACAGAACCCACCTGCCA
TACATGGATCTGGATCTGGATCTTGTCAGTGACTTTATGAGAGTTTCTGCCACAAGGTGCCAAGAGGAGAGGAA
TGGGAAGAGTGCCCCAGCACGTGGTGAAGTCTGCTGCTGCTTGCCTTTGAAGATAACTGGCAGGACTGAC
TGTAAGAACTTTGACTTTTTTCAAAAAGTGATGGAATTTGTACATCCAAATGAATATTGTATAGACAATTTTCC
CAGGAATGTGCAAAATGCTTGAAAGTTCAAACCTTCTTTTTTGAAATGATCTTCAGATCCAGTGGCCCATTTCTTTT
ATCTTTATCCTGTGAAGGTGTTTTTCAGGTTTTGAAACAATCCAAAAATCATTTAGGACCAAGTCTAAGGAAACA
TTTTAGTGGCCAAGTTGGATTCCGATTGTAAAGGAATGATACTAATTTTCTAGCATGGCTCTGAAGGTGATTTTA
GGTAGAAGAGTTTTGAGGCTGGGCGCAATGGCTCACGCCTGTAATCCTAGCATTTTGGGTGACTGAGGCGGGTGG
ATTGCTTGAGCCCAGAAGTTGAAGACCAGCCTGAGAAATAAGGTGAAACCCTGTCTACAAAAAATACAAAAAGTT
AGCTGGGTGTGGTGGCGTGTGCCTGTAGTGCTAGCTACTCAGAAGGCTGAGGTGGGAGGATTGTTTGAGCCCAGG
AGGTTGAGGCTGCAGTGAGTTCTAATTGCGCCACTGCACTCCAGCCTGAGCGACAGAGTGAGACACTGTCTTAAA
AAAAATTAAAAATTGT

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FIGURE 5758

MIINWNQVSVLWKCLLKQSASYQDRRQSWRRASMKETNRRKSLHP IHQGITELSRISISVDLAESKRLGCLLLSSF
QFSIQKLEPFLRDTKGFSLESFRAKASSLSEELKHFADGLETDGTLQKCFEDSNGKASDFSLEASVAEMKEYITK
FSLERQTWDQLLLHYQQEAKEILSRGSTEAKITEVKVEPMTYLGSSQNEVLNTKPDYQKNYRTRAKSLTVWSW

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FIGURE 5759

AGCGTTGCGAGACGGTCGGTTCCAAGTGGGCCTGGGCGCGGGGGAGAGGCGGGTCTGTCCTCGGGAAGTGAAGG
CCCTGTGAGCGGGAGGACTGGGATCCCGGCCGCGGCTGCTGGAAGCGTCGAAGCTCAGCGGGGCCGCGGACACTG
ACCTGTGCTTAGAACTCATCCTGGCCCGCAGAGCCTGCCGCGAGTCCCTGGCGTCCCCTGTGGCGGGCTCTTGGA
GCCACTTTCCCGAGCGGAAGTCAGCCCGCGGCTCGGACTCCGGCGGGACCTGCTCGGAGGAATGGCGCCGCGGG
TTCAAGCACTGTCTTCCTGTTGGCCCTGACAATCATAGCCAGCACCTGGGCTCTGACGCCACTCACTACCTCAC
CAAGCATGACGTGGAGAGACTAAAAGCCTCGCTGGATCGCCCTTTCACAAATTTGGAATCTGCCTTCTACTCCAT
CGTGGGACTCAGCAGCCTTGGTGCTCAGGTGCCAGATGCAAAGAAAGCATGTACCTACATCAGATCTAACCTTGA
TCCCAGCAATGTGGATTCCCTCTTCTACGCTGCCCAGGCCAGCCAGGCCCTCTCAGGATGTGAGATCTCTATTTT
AAATGAGACCAAAGATCTGCTTCTGGCAGCTGTGAGTGAGGACTCATCTGTTACCCAGATCTACCATGCAGTTGC
AGCTCTAAGTGGCTTTGGCCTTCCCTTGGCATCCCAAGAAGCACTCAGTGCCCTTACTGCTCGTCTCAGCAAGGA
GGAGACTGTGCTGGCAACAGTCCAGGCTCTGCAGACAGCATCCCACCTGTCCCAGCAGGCTGACCTGAGGAGCAT
CGTGGAGGAGATTGAGGACCTTGTGCTCGCCTGGATGAACTCGGGGGCGTGTATCTCCAGTTTGAAGAAGGACT
GGAAACAACAGCGTTATTTGIGGCTGCCACCTACAAGCTCATGGATCATGTGGGGACTGAGCCATCCATTAAGGA
GGATCAGGTCATCCAGCTGATGAACGCGATCTTCAGCAAGAAGAACTTTGAGTCCCTCTCCGAAGCCTTCAGCGT
GGCCTCTGCAGCTGCTGTGCTCTCGCATAATCGCTACCACGTGCCAGTTGTGGTTGTGCCTGAGGGCTCTGCTTC
CGACACTCATGAACAGGCTATCTTGCGGTTGCAAGTCACCAATGTTCTGTCTCAGCCTCTGACTCAGGCCACTGT
TAAACTAGAACATGCTAAATCTGTTGCTTCCAGAGCCACTGTCTCCAGAAGACATCCTTACCCCTGTAGGGGA
TGTTTTTGAACATAAATTTTATGAACGTCAAATTTTCCAGTGGTTATTATGACTTCCTTGTGCAAGTTGAAGGTGA
CAACCGGTATATTGCAAATACCGTAGAGCTCAGAGTCAAGATCTCCACTGAAGTTGGCATCACAAATGTTGATCT
TTCCACCGTGGATAAGGATCAGAGCATTGCACCCAAACTACCCGGGTGACATACCCAGCCAAAGCCAAGGGCAC
ATTCATCGCAGACAGCCACCAGAACTTCGCCTTGTTCTTCCAGCTGGTAGATGTGAACACTGGTGCTGAACCTCAC
TCCTCACCAGACATTTGTCCGACTCCATAACCAGAAGACTGGCCAGGAAGTGGTGTGTTGTTGCCGAGCCAGACAA
CAAGAACGTGTACAAGTTTGAACCTGGATACCTCTGAAAGAAAGATTGAATTTGACTCTGCCTCTGGCACCTACAC
TCTCTACTTAATCATTTGGAGATGCCACTTTGAAGAACCCAATCCTCTGGAATGTGGCTGATGTGGTCAATCAAGTT
CCCTGAGGAAGAAGCTCCCTCGACTGTCTTGTCCCAGAACCTTTTCACTCCAAAACAGGAAATTCAGCACCTGTT
CCGCGAGCCTGAGAAGAGGCCCCCACCCTGGTGTCCAATACATTCACTGCCCTGATCCTCTCGCCGTTGCTTCT
GCTCTTCGCTCTGTGGATCCGGATTGGTGCCAATGTCTCCAACCTCACTTTTGCTCCTAGCACGATTATATTTCA
CCTGGGACATGCAGCTATGCTGGGACTCATGTATGTCTACTGGACTCAGCTCAACATGTTCCAGACCTTGAAGTA
CCTGGCCATCCTGGGCAGTGTGACGTTTCTGGCTGGCAATCGGATGCTGGCCCAGCAGGCAGTCAAGAGAACAGC
ACATTAGTTCCAGAAGAAAGATGGAATTTCTGAAACTGAATGTCAAGAAAAGGAGTCAAGAACAATTCACAGTA
TGAGAAGAAAAATGGAAGAAAAAACTTTATTTAAAAAAGAAAAAGTCCAGATTGTAGTTATACTTTTGCTTGT
TTTTAGTTTCCCAACACACAGCAGATACCTGGTGAGCTCAGATAGTCTCTTCTCTGACACTGTGTAAGAAGC
TGTGAATATTCTAACTTACCCAGATGTTGCTTTTGAAGGTTGAAATGTGTAATTGTTTTGGAATAAAGAGGGT
ACAATAGG

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FIGURE 5761

MYCLQWLLPVLLIPKPLNPALWF SHSMFMGFYLLSFLLERKPCTICALVFLAALFLICYSCWGNCFLYHCSDSPL
PESAHDPGVVGT

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FIGURE 5762

TAGGTGGCGGGCGGGTACTTAAGGCGCGGCCACCGCGGCTGCGGCAGTGCGCCCAACAGCGGACTCCGAGACCAG
CGGATCTCGGCAAACCCCTCTTTCTCGACCACCCACCTACCATTCTTGGAACCATGGCGGCAGTGGCGGCGGCCTC
GGCTGAACTGCTCATCATCGGCTGGTACATCTTCCGCGTGCTGCTGCAGGTGTTCCCTGGAATGCTGCATTTACTG
GGTAGGATTTCGCTTTTCGAAATCCTCCAGGGACACAGCCCATTGCGAGAAGTGAGGTGTTTACGGTACTCCCTGCA
GAAGCTGGCATAACCGGTGTCGCGGACCGGGCGGCAGGTGTTGGGGGAGCGCAGGCAGCGAGCCCCCACTGAGG
CCCCAGCTCCCAGCCCTGGGCGGCCGTATCATCAGGTGCTCCTGTGCATCTCGGCCAGCACGGGAGCCAGTGCCG
CGCAGGAATGTGGGGTCCCTGTGTTCCCTCGCCAGAGGAGCACTTGGAAGGTGAGTGAGGGGCCAGTAGACCC
CCGGAGAAGCAGTACCGACAATGACGAAGATACCAGATCCCTTCCCAACCCCTTTGCACCGGTCCCCTAAGGGG
CAGGGTCGAGAGAGGAGGGGGGATAGGGGGAGCAGACCCCTGAGATCTGGGCATAGGCACCGCATTCTGATCTGG
ACAAAGTCGGGACAGCACCATCCCAGCCCCGAAGCCAGGGCCATGCCAGCAGGCCCCACCATGGAAATCAAAACA
CCGCACCAGCCAGCAGAATGGACATTCTGACATCGCCAGCCGACGCCCTGAATCTTGGTGCAGCACCACCGCGT
GCCTGTGTGGCGGGACTGGAGGGCACAGTTGAGGAAGGAGGGTGGTTAAGAAATACAGTGGGGCCCTCTCGCTGT
CCCTTGCCAGGGCACTTGCAATCCAGCCTCGCTGCATTTGCTCTCTCGATTCCCCCTTCCCTCCTCACTGCCTCC
CAAGCCCACCTACTCCAAAATAATGTGTCACTTGATTTGGAATATTCAAGCAGTAAAAAGTAAATGAATCCCAC
CTTTACTAAACACTTTCTCTGAACCCCCCTTGCCCTCACTGATCTTGCTTTTCCCTGGTCTCATGCAGTTGTG
GTCAATATTGTGGTAATCGCTAATTGTACTGATTGTTAAGTGTGCATTAGTTGTGTCTCCCCAGCTAGATTGTA
AGCTCCTGGAGGACAGGGACCACCTCTACAAAAATAAAAAAAGTACCTCCCCTGTCTCGCACAGTGTCCAGGA
CCCTGCGGTGCAGTAGAGGCGCACC

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FIGURE 5763

GGGGAXGGGGGGCAGTGTGGCTGGAGCCGCGGCTGACGGGCCCCGCGGTCTGGGCGTGAGTGCAGGGAAGTGGAGT
ATTTGCTGGGCCGGGTACCATGGACGTGGGCGAACTTCTGAGCTACCAGCCCAATAGGGGCACAAAACGTCCCCG
GGATGATGAAGAGGAGGAGCAGAAGATGCGTCGGAAACAACTGGTACTCGAGAACGCGGCCGCTATCGGGAAGA
AGAAATGACTGTGGTGGAGGAAGCGGATGATGACAAAAAAGGCTGCTGCAGATTATTGACAGAGATGGGGAAGA
GGAAGAGGAAGAGGAGGAGCCATTGGATGAAAGCTCAGTGAAGAAAATGATCCTCACATTTGAAAAGAGATCATA
TAAAAACCAAGAATTGCGGATTAAGTTTTCCAGACAATCCAGAGAAGTTCATGGAATCCGAGCTGGACCTAAATGA
CATCATTGAGGAGATGCACGTGGTGGCCACCATGCCAGACCTGTACCACCTTCTGGTGGAGCTGAATGCTGTACA
GTCGCTTCTCGGCTTGCTCGGACACGATAATACAGATGTGTCCATAGCTGTGGTCGATTTGCTTCAGGAATTAAC
AGATATAGACACCCTCCATGAGAGTGAAGAGGGAGCAGAAGTGCTCATCGATGCTCTGGTGGATGGGCAGGTGGT
AGCACTGCTGGTACAGAATCTGGAGCGCCTGGATGAGTCTGTGAAAGAGGAGGCAGATGGCGTCCACAACACTCT
GGCTATTGTGGAACATGGCTGAGTTCCGGCCTGAGATGTGTACAGAGGGTGCCAGCAGGGTCTTCTACAGTG
GCTGTTGAAGAGGCTGAAGGCAAAGATGCCTTTTGATGCCAACAACTGTATTGCAGTGAAGTGCTGGCCATATT
GCTCCAGGACAATGATGAAAACAGGGAATTGCTTGGGGAGCTGGATGGAATCGATGTGCTTCTTCAGCAGTTATC
CGTGTTTAAAGACACAATCCCAGCACGGCTGAGGAGCAGGAGATGATGGAGAATCTGTTTGATTCCCTCTGCTC
CTGTCTAATGCTTAGTTCCAATCGTGAGCGCTTCCTGAAGGGCGAGGGTCTTCAGCTGATGAATCTCATGCTCAG
GAAAAGAAGATCTCCCGGAGCAGTGCCTGAAAGTGCTGGACCATGCCATGATTGGCCCCGAAGGCACAGACAA
CTGCCATAAGTTTGTGACATTCTTGGCTTACGAACCATCTTTCCCCTCTTTATGAAATCTCCAGGAAGATCAA
GAAAGTGGGAACCACTGAGAAGGAACATGAAGAGCATGTCTGTTTCGATCCTGGCTTCCCTCCTGCGGAACCTGAG
AGGGCAGCAGCGGACCCGGCTTCTGAATAAATTCAGTGAAGATGACAGTGAGAAGGTTGACAGACTAATGGAGTT
GCATTTTAAATATCTGGGTGCAATGCAGGTGGCGGACAAGAAGATTGAAGGGGAAAAACACGACATGGTCCGGCG
AGGAGAGATCATCGACAATGACACCGAGGAGGAGTTCTACCTCCGGCGCCTGGATGCGGGGCTCTTTGTTCTCCA
GCACATCTGCTACATCATGGCCGAGATCTGCAATGCCAATGTCCCCAGATTGCGCCAGAGGGTTCACCAGATCCT
AAACATGCGAGGAAGCTCCATCAAAATTGTGAGGCATATCATCAAGGAGTATGCAGAGAACATCGGGGACGGCCG
GAGCCCGGAGTTCCGGGAGAACGAGCAAAAGCGCATCTGGGCTTGCTGGAGAACTTCTTAGAGGCACCTTGGCCC
TGCGCATCATGGACTCTCTCAGCTTCCCTCCCAGGATCAGTTTCTACACAACCTCTGTGTGGCTTTTGGACAAATT
AAAGCTAGTTTTGGTAAAAAAAAA

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FIGURE 5764

MDVGELLSYQPNRGTKRPRDDEEEEQKMRRKQTGTRERGRYREEEMTVVEEADDDKKRLLQIIDRDGEEEEEEEE
PLDESSVKKMILTFEKRSYKNQELRIKFPDNPEKFMESELDLNDIIQEMHV VATMPDLYHLLVELNAVQSLLGLL
GHDNTDVSIAVVDLLQELTDIDTLHESEEGA EVLIDALVDGQVVALLVQNLERLDES VKEEADGVHNTLAIVENM
AEFRPEMCTEGAQQGLLQWLLKRLKAKMPFDANKLYCSEVLAILLQDN DENRELLGELDGIDVLLQQLSVFKRHN
PSTAE EQEMMENLFD SLCSCLMLSSNRERFLKG EQLMNLMLREKKISRSSALKVLDHAMIGPEGTDNCHKFVD
ILGLRTIFPLFMKSPRIKKVGTTEKEHEEHVCSILASLLRNLRGQQRTRLLNKFTENDSEKVDRLMELHF KYLG
AMQVADKKIEGEKHDMVRRGEIIDNDTEEEFYLRRLDAGLFVLQHICYIMAEICNANVPQIRQRVHQILNMRGSS
IKIVRHIIKEYAENIGDRSPEFRENEQKRILGLENF

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FIGURE 5765

CCTCCCTCGGGCTCCGGTCCCCTGGGTGAGCCCCAGCGCTGGCGGCGTGGGCCCCGGGACTGGGCAATGGGTGGCC
TCCCAGGTCGCCGCTTCCC GCGGGGCCCCGCCCCGCCCCAAAGCGGGCTATAAGTTAGCGCCGCTCTC
CGCCTCGGCAGTGCCAGCCGCCAGTGGTCGCACTTGGAGGGTCTCGCCGCCAGTGGAGGAGCCACCGCCCCG
CCGACCATGGCCGAGGAGCTGGTCTTAGAGAGGTGTGATCTGGAGCTGGAGACCAATGGCCGAGACCACACAG
GCCGACCTGTGCCGGGAGAAGCTGGTGGTGCGACGGGGCCAGCCCTTCTGGCTGACCTTGCACTTTGAGGGCCGC
AACTACGAGGCCAGTGTAGACAGTCTCACCTTCAGTGTCTGTGACCGGCCAGCCCCAGCCCTAGCCAGGAGGCCGGGACC
AAGGCCCCGTTTTCCACTAAGAGATGCTGTGGAGGAGGGTGACTGGACAGCCACCGTGGTGGACCAGCAAGACTGC
ACCCTCTCGCTGCAGCTCACCACCCCGGCCAACGCCCCCATCGGCCTGTATCGCCTCAGCCTGGAGGCCCTCCACT
GGCTACCAGGGATCCAGCTTTGTGCTGGGCCACTTTCATTTTGCTCTTCAACGCTGGTGGCCAGCGGATGCTGTG
TACCTGGACTCGGAAGAGGAGCGGCAGGAGTATGTCTCACCCAGCAGGGCTTTATCTACCAGGGCTCGGCCAAG
TTCATCAAGAACATACTTGGAAATTTTGGGCAGTTTGAAGATGGGATCCTAGACATCTGCCTGATCCTTCTAGAT
GTCAACCCCAAGTTCTTGAAGAAGCGCCGCGTGACTGCTCCCGCCGAGCAGCCCCGCTACGTGGGCGGGTG
GTGAGTGGCATGGTCAACTGCAACGATGACCAGGGTGTGCTGCTGGGACGCTGGGACAACAACACTACGGGGACGGC
GTCAGCCCCATGTCTTGGATCGGCAGCGTGGACATCTGCGGCGCTGGAAGAACCACGGCTGCCAGCGCGTCAAG
TATGGCCAGTGCTGGGTCTTCGCCGCCGTGGCCTGCACAGTGTGAGGTGCTGGGCATCCCTACCCGCGTCTGTG
ACCAACTACAACCTCGGCCCATGACCAGAACAGCAACCTTCTCATCGAGTACTTCCGCAATGAGTTTGGGGAGATC
CAGGGTGACAAGAGCGAGATGATCTGGAATTCCTACTGCTGGGTGGAGTCGTGGATGACCAGGCCGGACCTGCAG
CCGGGGTACGAGGGCTGGCAGGCCCTGGACCCAACGCCCCAGGAGAAGAGCGAAGGGACGTACTGCTGTGGCCCA
GTTCCAGTTCGTGCCATCAAGGAGGGCGACCTGAGCACCAGTACGATGCGCCCTTTGTCTTTGCGGAGGTCAAT
GCCGACGTGGTAGACTGGATCCAGCAGGACGATGGGTCTGTGCACAAATCCATCAACCGTTCCCTGATCGTTGGG
CTGAAGATCAGCACTAAGAGCGTGGGCCGAGACGAGCGGGAGGATATCACCCACACCTACAAATACCCAGAGGGG
TCCTCAGAGGAGAGGGAGGCCCTTCAACAAGGGCGAACCACCTGAACAAACTGGCCGAGAAGGAGACAGGGATG
GCCATGCGGATCCGTGTGGGCCAGAGCATGAACATGGGCAGTGACTTTGACGTCTTTGCCACATCACCAACAAC
ACCGCTGAGGAGTACGTCTGCCGCCCTCTGCTCTGTGCCCGCACCGTACGCTACAATGGGATCTTGGGGCCCCGAG
TGTGGCACCAAGTACCTGCTCAACCTCAACCTGGAGCCTTTCTCTGAGAAGAGCGTTCCCTCTTGCATCCTCTAT
GAGAAATACCGTGACTGCCTTACGGAGTCCAACCTCATCAAGGTGCGGGCCCTCCTCGTGAGCCAGTTATCAAC
AGCTACCTGCTGGCTGAGAGGGACCTCTACCTGGAGAATCCAGAAATCAAGATCCGGATCCTTGGGGAGCCCCAAG
CAGAAACGCAAGCTGGTGGCTGAGGTGTCCCTGCAGAACCCTGCTCCCTGTGGCCCTGGAAGGCTGCACCTTCACT
GTGGAGGGGGCCGGCCTGACTGAGGAGCAGAAGACGGTGGAGATCCAGACCCCGTGGAGGCAGGGGAGGAAGTT
AAGGTGAGAATGGACCTGCTGCCGCTCCACATGGGCCTCCACAAGCTGGTGGTGAACCTCGAGAGCGACAAGCTG
AAGGCTGTGAAGGGCTTCCGGAATGTCATCATTGGCCCCGCTAAGGGACCCCTGCTCCCAGCCTGCTGAGAGCC
CCCACCTTGATCCCAATCCTTATCCCAAGCTAGTGAGCAAAATATGCCCTTCTTGGGGCCCCAGACCCAGGGCA
GGGTGGGCAGCCTATGGGGGCTCTCGGAAATGGAATGTGCCCTGGCCCATCTCAGCCTCCTGAGCCTGTGGGTG
CCCCTCACCCCTTTTGTCTGTGAGGAATGCTCTGTGCCAGAAACAGTGGGAGCCCTGACCTTGGCTGACTGGGGC
TGGGGTGAGAGAGGAAAGACCTACATTCCCTCTCTGCCCAGATGCCCTTTGGAAAGCCATTGACCACCCACCAT
ATTGTTTGATCTACTTCATAGCTCCTTGGAGCAGGCAAAAAGGGACAGCATGCCCTTGGCTGGATCAGGGAAAT
CCAGCTCCCTAGACTGCATCCCGTACCTCTTCCCATGACTGCACCCAGCTCCAGGGGCCCTTGGGACAGCCAGAG
CTGGGTGGGGACAGTGATAGGCCCAAGGTCCCCTCCACATCCCAGCAGCCCAAGCTTAATAGCCCTCCCCCTCAA
CCTCACCATTTGTGAAGCACCTACTATGTGCTGGGTGCCCTCCACACTTGCTGGGGCTCACGGGGCCTCCAACCCA
TTTAATCACCATGGGAACTGTTGTGGGCGCTGCTTCCAGGATAAGGAGACTGAGGCTTAGAGAGAGGAGGCAGC
CCCCTCCACACCAAGTGGCCTCGTGGTTATTAGCAAGGCTGGGTAATGTGAAGGCCCAAGAGCAGAGTCTGGGCCCT
CTGACTCTGAGTCCACTGCTCCATTTATAACCCAGCCTGACCTGAGACTGTGCGGAGAGGCTGTCTGGGGCCTTT
ATCAAAAAAAGACTCAGCCAAGACAAGGAGGTAGAGAGGGGACTGGGGGACTGGGAGTCAGAGCCCTGGCTGGGT
TCAGGTCCCACGTCTGGCCAGGCACTGCCTTCTCCTCTCTGGGCCTTTGTTTCCTTGTGGTCAGAGGAGTGATT
GAACCAGCTCATCTCCAAGGATCCTCTCCACTCCATGTTTGCAAT

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FIGURE 5766A

CGCTCCTCCGAGATGACGCCGGGGTCCGGTGCCCCGGGCCTGCCCTATCCCCTGGCTCCAGGGCTAGGCGGGACCG
AGGGCTGCCCCAGACAGACGGACCCGCGGACCCACAGACCCCGCGCCCAGGAGAGGAGCCGCGCCGCCCGCCGCT
GGCAGCCCGTCACCATGGTACCCCTCCATCCCTCGACACAGCCATCCAGCATGCCCTGGCGGGCCTCTATCCTCCT
TTCGAGGGCCACAGCACCCACCGTCCCTGGGTGAGGTGTTCCGTCTCCTGGACTCTGGCTTCCAGGGGGATGGGCTG
AGCTTCCTTCTGGATTTCTTGATCCCTGCCAAGCGCCTGTGTGAGCAAGTGCAGAGAAGCAGCCTGTGCTCCCTAC
TCACACTGCCTCTTCTTACACGAGGGCTGGCCACTCTGTCTGAGGGATGAAGTTGTGGTCCACTTGGCACCCCTC
AACCCTCTCTTATTGCGCCAGGGTGACTTCTACCTCCAAGTGAGCCCCAGGAGGAGCAGTCTGTCTGCATCATG

ATCAAATGCCTCTCCCTGGACCTCTGCACAGTGGACAAGAAGCCTGTTCCAGAGCCAGCCTACCCTATACTTTTC
ACCCAAGAATGGCTGGAGGCCATCAACAGTGACTTTGAGGGAAATCCCCTACACAAGTCTTGGTAGCATCAGAA
AATGGGATTGCCCCCTGTGCCTTGGACCAAGATAACCAGCCAGAGTTTGTGGATGACAGACCCCAAGTAGTGAAT
GCCCTCTGCCAAGCCTGGGGGGCCCCCTCCATTAGAGGCACTGGATTTGAGCAGCCCTCAAGAGTTGCACCAGGCC
AGCTCCCCAGACAACCAGGTGCTTCTGCCCAGAGTTTGGCCAAGGGTAAGGGCAGGACATATGGGAGCAAGTAT
CCAGGACTCATCAAGGTGGAGCAAGCCCGGTGTGGGGAGGTGGCTTTCAGGATGGACGAGGTGGTCAGCCAGGAC
TTCGAGGGGAGACTATGTGGCTCTCCTAGGCTTTTCCCAAGAGAGCAGAGGAGAGTCTCCCAGTAGGGAGGCAGGC
ACATCCAGTGGGTGTACTTCTGGGGCACTAGAGGAGATAGCTGGAACATAAGGAACTCCCTTATTTCAAAGATA
CTGCCCTCTCTCAGAGGCCAATGAAGGACCTTCCTTGGGAAATCGGGCTTGACAAAGCCAGAAAGCTCTGAGGAG
AGGCCCTATAATTTGGGCTTCAGGAGAAAGGTCAATCTTAAAGCACCCACCCACAAGTCTGAGAAAGGCCGCCAA
GGCTCCTACATGAATGTCTTGGAGACGCACTGGACTGTGCCTCTGGTCTCAGGGCAGGTGTCTCACAAGAGCCA
GCTGCCTCCAAGATGCAGGGACCTCTAGGAAACCCAGAGAATATGGTGCAGCTCAGGCCTGGACCAAGACAAGCC
TCCTCTCCCCCGCTGTCCCCAGCTTCTCCTGCAGCTGCAGCCTCTGAAACAAAGATAGAGGTGAAGACCAAGAG
AGAAATGGGAGACTTCCCAAGCCCATGCCCTGCCCTAGCAGAAACACCTCCTCCCCTGAGCCCCCACTCCTGGG
CTCAAATTCTCATTCTTGGAGGGCAGAGGCAACCCCTCTGTGACCCCGAGAAAGCCTCACTCCAGCACAATGGG
CCCTGGAAAGTCTGTGTTCCCTCTACTCTCCTAAACCCCAACCGAGCCAAATCTTTGGGAAAGCTGGAACAACT
CAGACCAAAACATCTGGCCAGCCACTGCCCCCAGCCCACTGACTGAGGAAAAGGCTGCCTTGCCAGAAGCTTCT
GCAGGCTCCCCAGAAAGAGGCCCCACCCTGGAGGAGGAGCCCCCAGGGCCTGAGCCCAGGATTGGGGCTCTAGGT
GTCAAGGTTTTTCCGCTCCAGGATAGCATGCCTGCCAGGTGGCCGGGACAGGGCCGGGCGGCCCTGCTTCTGGTG
TCAACTACAGAGGGGGCCTGGGAGGCACCATGGTGCACAGTTTTCAGAGGTCACCAAGCTACTGTCTACCTGTGT
ACCATCCCCAGGCCTGAAGATAAAGCCAAGGGGCTGGCGGTCTCTGATTGACGCCAGGAGACAGCCCCACAGCCC
GGTCTGGTCAGCGCCCTGCAGGCCACCCAGGCTCAGGTCCCAGCCTCTATCCGGGCTATTCTCTTCTGGGGGAG
AAGGAGGCGGCTCTCCAGCTGCAGACATTACCTGACGTCCAGGTGGAGGTGCTGACCTCATTGAAGGCCCTCAGC
CACCATGTGGACCCCAAGCAGCTGCCCCGAGTCCCTGGAAGGCCCTTCCCCTACTGCCACACCGAGTGGGTTCA
TTCTTCCAGAAGCTGGACCCCTTTCCCTGCTGACCTCCACCAGGCCTCTTCCCTGCTACAAGCTTCCATCGAGGAA
TTCGAGAAGGCCGACCCCTTGGGGGGATGCAGGAGGCTACCAGGTGCCCTGAGCAAGTCCAAGGAGCTGATGGAG
GCTGTGCTGAGGGACCCCGCCTACTGGGCCTCCAGCGGGAAGGTGGAGCCACCCTGGCCAGGCTGCAGCATGAT
GCCAGCAGGCTGGACTTCAGCCCTGATGTGAGGAGCCATCTGGCTGCAGCCACTGCCTTGTACAGCCTTGTGGAC
GAGCAGCTTCAATGTTCTGGTACCCGCTTCCAACAGCCTCCTGGGGAAAGCTGGAGCTCCGTGTCCGCCTGGGCCGC
CTGGAAGCTGCCATTACACAGGTGACGACTGGATGGAGCAGGAAGGAAGGCGGTGCCTGCAATCACTGACCCCC
AAGGATGGAAGTTTGGAGACAGTGGAGAAAGCCACGCAGAATTTGAGAACTTCTTCTCCAGGCTGCAGCCAG
TACCGCCGAGGCCTGGAGCTGTCCAAGCAGGCCGCTCAGCTGGGAGCTACAGCCAGAGGGGCTGGGGAGGCAGAA
CGTGCAGAGTTCCAGAGCTGGCAGCCTTTGCCTCTACCCAGCGGGCCTTCCAGGCTGAGCTGACCCACTTTTAC
ATGGCGGCCGAGCGGCAACGCACGGACCTCGAGACGCTGCTCCACCTGCACCGCTTCTGCAAGAGGATGACCTGG
TTCCACATGGACTGTGAGACCTGATGGCCCAGCTCAGGCTGGACAAGACCTCAAGGGTCAGTCTTGGGGACAG
CGCCGCTCCACCGCTACCTGCAGCGACTGGCATCTGAGTTCCCTGCTGAGAAGCTCGCAGCCGTGGGGCTGCAG
GTGGCTCCCTGAGCCGGGCAGGCCTGGGCCAGGAGCTATGGGAGGAGGCCCGGATCAGGCATGAGGAGATCCGG
ATGCTCCTGGAGAAGGCACTGACCCACAGCTCTTGCCAGAGGCTCCAGCTGCTCACTCAGCGCGCCCAAGACGA
AGAGGGGTGGCAGCCAAGGGCCAGGGTGTGAGTGTAGAGGTCACTTCCAAGGGGAGGTGGGATCAGCCTCCACTA
GACTCACTGGGCATGGACATTGCCAAAGTCTATTGGCCTCCTGGGCCCCCCAGAGGGGAACAGAACAGAAGT
TTCCAGGCAGGCTCTCCACCCAGGAAGCTGGCCAGGCTGCAGAGGCTGAAGACGGCAAAGGCTCCCAAGCTG

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FIGURE 5766B

CCTGACCCTGCCCGCAGCATTGCTTGCCACCACCTTCTTCCGGCAGCAGCCCCCAGGCAGAGCCAGGTCCCT
CGCCTCACTGGGGGCAGCTTCTCCTCAGAGGGGACAGACTCACAGACATCCCTTGAGGACTCACCCAGACAAGT
CCCCTTGCCCTCCCTC**TAG**CTGAGAGGGCCCTTCAGTCGCACCAGCCTCCAGGAGCACTGGGGCCAGGGCCAGCTG
GAGGGGTAGCTGGGAGCTCTGGTCAGTCCCAGTGAGACGTACCATGGAGCACTGGTTTTACATTCTGCCTCTGC
TGGGAGGATGAGAACTGTCGACCTGCCCCCTGGCTCCAGAAAACTCCTGGAAGACCCGATCTTCACCCATGCAGAA
TAGCAAGAGTGGGCGTCAGAACCAGGGCACAATAAATGGTGTGATTGGCTCCATCCCTCCAGGCTCTCATTGTGG
AAAGACCTGTGCGGCACAGACCCCTCCAGAGGTCTCGCTCGCAGGCAGGCAGACACCCACCTGCAGCTCAGGAACA
TACACAGCTCTCCCCCTCGGGTACGAGGGCCAGTGTGGCCCTTAGGCAGAATCCTCGGGGAGATTGGGGAGTGCTT
CCTTGTCTTGGAATCCAGGAAAAATGGACCCTGAGATGAGGATTTAAGGATCAGTGTGTTTGGTGCTGATCCAGGA
ACCTCTGCTGGGGGAGTAGGAGGCGAATCTGCAAAGGGAATAAAGAGTATGTTGTCAAGCAAATTTTCTTTTTTT
TAATTTTTTAAACCTTATTGTATTTTATGTTTAGAGATGGGGCCTCACTACATTGCCCAGGCTGGTCTCAAACCTC
CTGGGCTCAAGTGATCCTCTTGCCCTGGCCCTGCCAAAGTGCTGGGATTGCCTTTTCCGCCACCCCCCGACCC
CACCAGAGACAGGGTCTCACTCTGGTGTCCAGGCTGGAGTGCAGTGGTGCAATCATAGCCTTAAATTCCTGGGTT
CAACCAATCCTCCCACCTCAGCCTCCTAAGTAGCTGGGACTACAGTTATGCACCACCATGCTCAGCTTATTATTT
ATTTATTTTTTGTAGACATGGGGTCTTGCTATGTTGCCCAGGCAGGCTGATCTCAAGCTCAAGTGATCCTCTGGA
CTCAGCCTCCCAAAGTGCTGGGATTATACGTATGAGCCACTGTGCCCCACCTCATACAAATTTCCATGTTGGCA
ACTGTAGCTGGATCTTTCTGGAGATCTCTGAAAGACAGCATGGAATCCTTGAACACCCCTGAGGCGTGAGGCAT
CCAGAGCATTATCTGCCAACCTCAGGAGCTGGCACTCGTAGACAGCACGCACAGCCAGCTCCATTGGTCTTGG
CAAAGAGAAATGCCTCCTGGAGCCAGAGGCCGTTTCTGTGCTTAGAAAGGAAGGACATGTCTTCTGTGCTCCCT
GTCTCACAAGGCCTCTTCAGCAGGCATGGGACCTTCAATTCTCAAGTTCAAGGAACCTGTGGAACCTTGTCTTG
TCCTCCAGAGAGAATCCTCTCCGCCTTAGAGGTCCCTCCTCTCTCTCACCTCCCCACCAAGCCTCCCTGAACTCA
ATGTCTTCTGTCCCTTCCCTGCCCAACTTCCACTTCTCTATGCCCAGCCTCTGTGGCCCAGTACCATTGGGGTT
CTGTGGGCAGCTGGGTCTGGTGGTTGGGGACCGTGGGAAGGGGCCTATCTGTCTGGATCTTAGATGGAGCATCCA
GAAGCCCCACCTTCATACTGGCCAGAGTGGCCCCTGCCAGCGCCTCTCTGGAGTGTCAATTAAGCTGAAAGTGT
TGCCTTACCTCTGCAGTAGGATGCATTACTGAAGTGGCCTCTTGGTCACTAGCTCTGAATTTTCTGGCTCCAG
AAAGAGGCTGTGGGGCACAGGTCCCCACAATGAGGCTGTGAAGGGGAGAGAGGCAGGCCTGGGCCAGGCACAGG
AGGACAACCTAGGGCTTCTCAGGAGCTGTCTCAGCCAAGAGTCACACACTTGATACCTAAAATGGCTTCAGGAATC
TTCCAAGACTGAAGACTTCCCCAGGTGTGGTCTAGGGCCTGCCTGCCTCAGAGCCATGAGCAGAGCCGGTCAAAA
GGCTTCCTAGGGAATCCTACCCAGACATTAATAATAGACTCTTGGTGTGGCAGGTGGCTGGAATCTGCGTTTGT
AGCCAAGTGCTCTTCTGTGTGACTCAGCAAAGTGGGGGTGATTTGGGGAACACCCGGGGCTGGGGCCTGAGTC
CTCCACCCAAAGCCAGGTTTGATTCTTGCAATCCCCCTCCCTGCCTTCCATCCAGACAGGCCCCAAAGATGCAAGAG
GCGTTGATCAGCCCATCTCCATCCATGCCTGTTGCCTCAGAGAGGGCCGACGGCTTTTAAATGCTGTTGCCATA
GCAACAGCATCCAGCCAGTGGGTACCACAGGCAGGGAGCCACAGAACTGGGGTGCTGGGATGGAACTGACTTG
TGAGAGACCACAGCTACTGCTAGAAGGAAGGGGGGCAAAGCGGGCACAGGTAATCTAAGAATACTTGGGCGGGAG
GAGTCCCCAAGGTTACCTTGTGCATCCCTCTGTCCCCAGAAAGAACTGTACCCCAACAATCTCTCCCTCACTGC
ATCCCTGGGGGAAGAAGGGAATGCAGAAATGAAATGTCATAATGAGTAACAATGTATAAAAATATCGAATAATAA
CAGCT

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FIGURE 5767

MIKCLSLDLCTVDKKPVPEPAYPILFTQEWLEAINSDFEGNPLHNCCLVASENGIAPVPWTKITSPEFVDDRPQVV
NALCQAWGPLPLEALDLSSPQELHQASSPDNQVLPAQSLAKGKGRTYGSKYPGLIKVEQARCGEVAFRMDEVVSQ
DFEGDYVALLGFSQESRGESPSREAGTSSGCTSGALEEIIAGTKETPLFQKILPLSEANEGPSLGNRACTKPESSE
ERPYNLGFRRKVNLIKAPTHNSERPPQGSYMNVLLEDALDCASGLRAGVSQEPAASKMQGPLGNPENMVQLRPGPRQ
ASSPRLSPASPAAAASETKIEVKTKERNRGLPKPMPCPSRNTSSPEPPTPGLKFSFLRGQRQPSVTPEKASLQHN
GPWKVLCSLYSPKPNRAKSLGKAGTTQTKTSGPATAPSPLTEEKAALPEASAGSPERGPTLEEEPPGPEPRIGAL
GVKVFRSRIACLPGGRDRAGRPLLLVSTTEGAWAPWCTVSEVTKLLSYLCTIPRPEDKAKGLAVLIDARRQPPQ
PGLVSALQATQAQVPASIRAILFLGEKEAALQLQTLQVQVEVLTSKALSHHVDPSQLPAVLEGPFPYCHTEWV
HFFQKLDPFLADLHQASSLLQASIEEFKADPPGGMQEATRCLSKSKELMEAVLRDPGLLGLQREGGATLARLQH
DASRLDFSPDVRSHLAAATALYSLVDEQLHVLVTASNLLGKLELRVRLGRLEAAIHQVSDWMEQEGRRCLQSLT
PKDGSLETVEKAHAEFENFFLQAAAQYRRGLELSKQAAQLGATARGAGEAERAEPPELAFASTQRAFAQELTHF
YMAAERQRTDLETLHLHHRFCKRMTWFHMDQCQDLMAQLRLDKTSRVSPGDQRRRLHRYLQRLASEFPKLAAGL
QVASLSRAGLGQELWEEARIRHEEIRMLLEKALHSSCPEAPAAHSARPERRGVAAGQGVSVSVTSKGRWDQPP
LDLGLMDHLPKSYWPPGPPRGEQNRTFQAGSPPQEAGQAAEAEDGKGSHKLPDPAREHLLATTFRQPPRQSQV
PRLTGGSFSSSEGTDSQTSLEDSPQTSPLASL

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FIGURE 5768

AGGCCTTGAGGTTTTGGCAGCTCTGGAGGATGAGAGAGAACATGGCCAGGGGCCCTTGCAACGCGCCGAGATGGG
CGTCCCTGATGGTGCTGGTTCGCCATAGGCACCGCCGTGACAGCGGCCGTCAACCCTGGCGTCGTGGTCAGGATCT
CCCAGAAGGGCCTGGACTACGCCAGCCAGCAGGGGACGGCCGCTCTGCAGAAGGAGCTGAAGAGGATCAAGATTCT
CTGACTACTCAGACAGCTTTAAGATCAAGCATCTTGGGAAGGGGCATTATAGCTTCTACAGCATGGACATCCGTG
AATTCCAGCTTCCCAGTTCCCAGATAAGCATGGTGCCCAATGTGGGCCTTAAGTTCTCCATCAGCAACGCCAATA
TCAAGATCAGCGGGAAATGGAAGGCACAAAAGAGATTCTTAAAAATGAGCGGCAATTTTGACCTGAGCATAGAAG
GCATGTCCATTTTCGGCTGATCTGAAGCTGGGCAGTAACCCACGTCAGGCAAGCCCACCATCACCTGCTCCAGCT
GCAGCAGCCACATCAACAGTGTCCACGTGCACATCTCAAAGAGCAAAGTGGGGTGGCTGATCCAACCTCTTCCACA
AAAAAATTGAGTCTGCGCTTCGAAACAAGATGAACAGCCAGGTCTGCGAGAAAGTGACCAATTCTGTATCCTCCG
AGCTGCAACCTTATTTCCAGACTCTGCCAGTAATGACCAAAATAGATTCTGTGGCTGGAATCAACTATGGTCTGG
TGGCACCTCCAGCAACCACGGCTGAGACCCTGGATGTACAGATGAAGGGGGAGTTTTACAGTGAGAACCACCACA
ATCCACCTCCCTTTGCTCCACCAGTGATGGAGTTTCCCGCTGCCCATGACCGCATGGTATACCTGGGCCTCTCAG
ACTACTTCTTCAACACAGCCGGGCTTGTATACCAAGAGGCTGGGGTCTTGAAGATGACCCCTAGAGATGACATGA
TTCCAAAGGAGTCCAAATTTGACTGACAACCAAGTTCTTTGGAACCTTCTACCTGAGGTGGCCAAGAAGTTTC
CCAACATGAAGATACAGATCCATGTCTCAGCCTCCACCCCGCCACACCTGTCTGTGCAGCCCACCGGCCTTACCT
TCTACCCTGCCGTGGATGTCCAGGCCTTTGCCGTCTCCCAACTCCTCCCTGGCTTCCCTCTTCTGATTGGCA
GCACACAACCTGGTTCCATGGAGGTCAGCGCCGAGTCCAACAGGCTTGTTGGAGAGCTCAAGCTGGATAGGCTGCT
CCTGGAACCTGAAGCACTCAAATATTGGCCCCCTTCCCGTTGAATTGCTGCAGGATATCATGAACCTACATTGTACC
CATTCTTGTGCTGCCCAGGGTTAACGAGAACTACAGAAAGGCTTCCCTCTCCCGACGCCGCCAGAGTCCAGCT
CTACAACGTAGTGCTTCAGCCTCACCAGAACTTCCCTGCTGTTCCGGTGCAGACGTTGTCTATAAATGAAGGCACCA
GGGGTGCCGGGGGCTGTGAGCCACACCTGTTTCTGATGGGCTGTGGGGCACCAGGCTGCCTTTCCCCAGGGAATCC
TCTCCAGATCTTAACCAAGAGCCCCCTTGCAAACCTTCTTCGACTCAGATTGAGAAATGATCTAAACACGAGGAAAC
ATTATTATTGGAAAAGTGCAATGGTGTGTATTTTAGGGATTATGAGCTTCTTTCAAGGGCTAAGGCTGCAGAGAT
ATTTCTCCAGGAATCGTGTTCATTGTAACCAAGAAATTTCCATTTGTGCTTCATGAAAAAACTTCTGGTT
TTTTTCATGTG

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FIGURE 5769

GCGCTCCAAGATGGCGGCGAACGTGTTCCCGTTCCGCGACGCCCGTGCCGCACCGGACCCAGTGCTGGAGGCCGG
CCCGGTGGCACACGGGCCACTGCCGGTACCGCTGGTGCTGGACAACGGGTCGTTCCAAGTCCGCGCTGGCTGGGC
GTGTCCCGGGCAGGACCCAGGTCCCGAGCCGCGCCTGCAGTTCCGCGCGGTGTGCGCCCGCGGTCTGGCGGGGC
ACGGGGCGCGTCGGGCCCCGAGGTGGGGAACGCTCTGGGCAGCCTGGAGCCACTGCGCTGGATGCTGCGCTCGCC
CTTCGACCGCAACGTGCCGGTCAACCTGGAGCTTCAGGAGTTGCTGCTGGACTACAGCTTCCAGCACCTGGGTGT
CTCCTCACAGGGCTGTGTTGATCATCCCATAGTTTTGACAGAAGCTGTGTGCAACCCACTGTATTACGGCAAAT
GATGTCTGAGCTTCTTTTTGAGTGCTACGGGATTCCCAAGGTTGCCTATGGAATAGACAGCCTCTTCAGCTTCTA
CCACAATAAGCCAAAGAACTCGATGTGCAGTGCGGCTAATCATTTTCATCTGGATAACAGTGTACGCATGTTTTACC
CATCTTAGAAGGGAGATTAGATGCTAAAACTGCAAGCGCATCAATCTTGGAGGAAGCCAAGCAGCTGGTTACCT
CCAGCGTCTCCTCCAGCTGAAGTACCCTGGGCACCTGGCAGCCATCACCTCAGCCGCATGGAGGAGATTCTGCA
TGAGCACAGCTACATCGCTGAGGATTATGTGGAAGAATTACACAAATGGCGGTGTCCTGATTATTATGAGAATAA
TGTCCACAAGATGCAGCTCCCATTTTTCCAGCAAGCTCCTGGGCAGCACTCTGACCTCTGAGGAGAAACAAGAAAG
GCGGCAGCAGCAATTGCGGCGGTGCAGGAGCTCAATGCCCGGCGGCGGGAGGAGAAGCTGCAGCTGGATCAGGA
GCGTCTGGACCGACTGCTATATGTGCAGGAACCTCTAGAGGATGGCCAGATGGATCAGTTTCACAAAGCTCTGAT
AGAGCTGAATATGGACTCCCCAGAAGAGCTGCAGTCTTACATCCAGAAGCTCAGTATAGCAGTGGAGCAGGCTAA
GCAGAAAATCCTCCAAGCGGAAGTCAACCTCGAGGTGGATGTGGTAGACAGCAAGCCAGAGACCCCTGACCTGGA
GCAGCTGGAGCCGCTTTTGAAGATGTGGAAGCATGAATGATTTTGATCCCTTGTTTTTCAGAGGAAACACCTGG
AGTGGAGAAGCCGGTCAACCTGTTTCCAGCCGTTGTTAACTTGGCAGCATATCATCAGCTATTTGTTGGGACAGA
AAGAATTCGAGCTCCAGAGATTATTTTCCAGCCATCTCTCATAGGAGAAGAACAGGCTGGGATTGCAGAGACTCT
TCAGTACATTCTGGACAGGTACCCAGAGGACATTCAGGAAATGCTGGTTTCAGAACGTTTTCTCACTGGCGGCAA
CACGATGTATCCTGGCATGAAAGCCAGAATGGAGAAGGAACCTGTTGGAGATGAGACCCCTCCGGTCTTCTTTTCA
GGTTCAACTTGCCCTCGAACCCTGTGCTGGATGCCTGGTACGGTGCTCGTGAAGTGGGCTTGAACCACCTAGATGA
TAATGAAGTTTGGATCACCAGGAAAGAGTATGAAGAAAAGGGAGGAGAGTACCTCAAGGAGCACTGTGCTTCCAA
CATCTATGTCCCCATCCGCTGCCGAAGCAGGCCTCCCGCTCCTCAGATGCCCAGGCATCCAGCAAGGGCTCCGC
TGCTGGTGGAGGTGGTGCTGGTGAGCAGGCATAGCAGAGGCCCTCCAGAGAGACTGCCCTGCACGCCATGCCCTG
GGCCACGTTGGCAGTGTGACAGGACTGTGATTGTGCTAGATGTACCTGCCCAAGTCTGCTGGTCACATTTGGCAG
CAAAATGGATTTCTCCTGGGGAGAACAAAGTTAAGGGACACTGAGACCTGCCCTTCAGAAATTCGGTTCACTTGGG
GGCTTCTGTGGTAGAGACTAACTGGCCTTCTGATGTCTTTGTTCAACTGTGGCCAGCTGTGGCATCAGCTTCCTG
GAGCAGTAAATGAAGACAGAGTGGAGGACACAAATGTACAAAATGCACAAGACTGATTTCTTACCACATTTTAGT
CTTCTTGTTTT

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FIGURE 5770

MAANVFPPRDARAAPDPVLEAGPVAHGPLPVPLVLDNGSFQVRAGWACPGQDPGPEPRLQFRAVCARGRGGARGA
SGPQVGNALGSLEPLRWMLRSPFDRNVPVNLELQELLLDYSFQHLGVSSQGCVDHP IVLTEAVCNPLYSRQMMSE
LLFECYGIPKVAYGIDSLFSFYHNKPKNSMCSGLIISSGYQCTHVLPILEGR L DAKNCKRINLGGQAAGYLQRL
LQKYPGHLAAITLSRMEEILHEHSYIAEDYVEELHKWRCPDYENNVHKMQLPFSSKLLGSTLTSEEKQERRQQ
QLRRLQELNARRREEKLQLDQERLDRLLYVQELLE DGQMDQFHKALIELNMDSPEELQSYIQKLSIAVEQAKQKI
LQAEVNLEVDVVD SKPETPDLEQLEPSLEDVESMND F DPLFSEETPGVEKPVT TVQPVFNLAAYHQLFVGTERIR
APEIIFQPSLIGEEQAGIAETLQYILD RYPEDIQEMLVQN VFLTGGNTMYPGMKARMEKELLEMRPFRSSFQVQL
ASNPVLDAWYGARDWALNHLDDNEVWITRKEYEEKGGEYLKEHCASNIYVPIRLPKQASRSSDAQASSKGSAAAG
GGAGEQA

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FIGURE 5771A

GGGGTGCCGCCGCCGCCGTTGCGCTTGCTCCCGGGCGGTCTGGCCTGTGCCGCCGCCGCCCCAGCGTCCGAGC
CATGGCGGGCGCCGCGTCCCCTTGCGCCAACGGCTGCGGGCCCGCGCGCCCTCGGACGCCGAGGTGCTGCACCT
CTGCCGCAGCCTCGAGGTGGGCACCGTCATGACTTTGTTCTACTCCAAGAAGTCGCAGCGACCCGAGCGGAAGAC
CTCCAGGTCAAGCTGGAGACGCGCCAGATCACGTGGAGCCGGGGCGCCGACAAGATCGAGGGGGCCATTGACAT
TCGTGAAATTAAGGAGATCCGCCCAGGGAAGACCTCACGGGACTTTGATCGCTATCAAGAGGACCCAGCTTTCCG
GCCGGACCAGTCACATTGCTTTGTCAATTCTCTATGGAATGGAATTCGCCTGAAAACGCTGAGCCTGCAAGCCAC
ATCTGAGGATGAAGTGAACATGTGGATCAAGGGCTTAACCTGGCTGATGGAGGATACATTGCAGGCACCCACACC
CCTGCAGATTGAGAGGTGGCTCCGGAAGCAGTTTTACTCAGTGGATCGGAATCGTGAGGATCGTATATCAGCCAA
GGACCTGAAGAACATGCTGTCCCAGGTCAACTACCGGGTCCCCAACATGCGCTTCTCCGAGAGCGGCTGACGGA
CCTGGAGCAGCGCAGCGGGGACATCACCTACGGGCAGTTTGCTCAGCTGTACCGCAGCCTCATGTACAGCGCCCA
GAAGACGATGGACCTCCCCTTCTTGGAAGCCAGTACTCTGAGGGCTGGGGAGCGGCCGGAGCTTTGCCGAGTGTC
CCTTCTGAGTTCCAGCAGTTTCTTCTTGACTACCAGGGGGAGCTGTGGGCTGTTGATCGCCTCCAGGTGCAGGA
GTTCAATGCTCAGCTTCTCCGAGACCCCTTACGAGAGATCGAGGAGCCATACTTCTTCTGGATGAGTTTGTAC
CTTCTGTTCTCCAAAGAGAACAGTGTGTGGAACTCGCAGCTGGATGCAGTATGCCCGGACACCATGAACAACCC
TCTTTCCCACTACTGGATCTCTCTCGCACAAACAGTACCTGACCGGGGACCAGTTCTCCAGTGAGTCTCTCTT
GGAAGCCTATGCTCGCTGCCTGCGGATGGGCTGTGCTGCATTGAGTTGGACTGCTGGGACGGCCCGGATGGGAT
GCCAGTTATTTACCATGGGCACACCCTTACCACCAAGATCAAGTTCTCAGATGTCTTGACACCATCAAGGAGCA
TGCCTTTGTGGCCTCAGAGTACCCAGTCATCTGTCCATTGAGGACCACTGCAGCATTGCCCAGCAGAGAAACAT
GGCCCAATACTTCAAGAAGGTGCTGGGGGACACACTCCTCACCAAGCCCGTGGAGATCTCTGCCGACGGGCTCCC
CTACCCAAACCAGCTTAAGAGGAAGATCCTCATCAAGCACAAGAAGCTGGCTGAGGGCAGTGCCCTACGAGGAGGT
GCCTACATCCATGATGTACTCTGAGAACGACATCAGCAACTCTATCAAGAATGGCATCTCTACCTGGAGGACCC
TGTGAACCACGAATGGTATCCCCACTACTTTGTTCTGACCAGCAGCAAGATCTACTCTGAGGAGACCAGCAG
TGACCAGGGCAACGAGGATGAGGAGGAGCCCAAGGAGGTGAGCAGCAGCAGAGCTGCACTCCAATGAGAAGTG
GTTCCATGGGAAGCTAGGGGCAGGGCGTGACGGGCGTCACATCGCTGAGCGCCTGCTTACTGAGTACTGCATCGA
GACCGGAGCCCCTGACGGCTCCTTCTCGTGCGAGAGAGTGAGACCTTCTGTGGGCGACTACACGCTCTCTTTCTG
GCGGAACGGGAAAGTCCAGCACTGCCGTATCCACTCCCGGCAAGATGCTGGGACCCCCAAGTTCTTCTTGACAGA
CAACCTCGTCTTTGACTCCCTCTATGACCTCATCAGCACTACCAGCAGGTGCCCCCTGCGCTGTAATGAGTTTGA
GATGCGACTTTTCAAGCCGTGTCCCACAGACCAACGCCACGAGAGCAAAGAGTGGTACCACGCGAGCCTGACCAG
AGCACAGGCTGAGCACATGCTAATGCGCGTCCCTCGTGATGGGGCCTTCTTGGTGCGGAAGCGGAATGAACCCAA
CTCATATGCCATCTCTTTCCGGGCTGAGGGCAAGATCAAGCATTGCCGTGTCCAGCAAGAGGGCCAGACAGTGAT
GCTAGGGAACCTCGGAGTTTCGACAGCCTTGTGACCTCATCAGCTACTATGAGAAACACCCGCTATACCGCAAGAT
GAAGCTGCGCTATCCCATCAACGAGGAGGCACTGGAGAAGATTGGCACAGCTGAGCCTGACTACGGGGCCCTGTA
TGAGGGACGCAACCCCTGGCTTCTATGTAGAGGCAAACCCCTATGCCAACTTTCAAGTGTGCAGTCAAAGCCCTCTT
TGACTACAAGGCCCCAGAGGGAGGACGAGCTGACCTTCATCAAGAGCGCCATCATCCAGAATGTGGAGAAGCAAGA
GGGAGGCTGGTGGCGAGGGGACTACGGAGGGAAGAAGCAGCTGTGGTTCCCATCAAACCTACGTGGAAGAGATGGT
CAACCCCGTGGCCCTGGAGCCCGAGAGGGAGCACTTGGACGAGAACAGCCCCCTAGGGGACTTGCTGCGGGGGGT
CTTGGATGTGCCGGCTTGTGAGATTGCCATCCGTCTGAGGGCAAGAACAACCGGCTCTTCTGCTTCTCCATCAG
CATGGCGTCGGTGGCCCCACTGGTCCCTGGATGTTGCTGCCGACTCACAGGAGGAGCTGCAGGACTGGGTGAAAAA
GATCCGTGAAGTGGCCCAGACAGCAGACGCCAGGCTCACTGAAGGGAAGATAATGGAACGGAGGAAGAAGATTGC
CCTGGAGCTCTCTGAACTTGTGCTACTGCCGGCCTGTTCCCTTTGATGAAGAGAAGATTGGCACAGAACGTGC
TTGCTACCGGGACATGTATCCTTCCCGGAAACCAAGGCTGAGAAATACGTGAACAAGGCCAAAGGCAAGAAGTT
CCTTCAGTACAATCGACTGCAGCTCTCCCGCATCTACCCCAAGGGCCAGCGACTGGATTCTTCCAACCTACGATCC
TTTGCCCATGTGGATCTGTGGCAGTCAGCTTGTGGCCCTCAACTTCCAGACCCCTGACAAGCCTATGCAGATGAA
CCAGGCCCTCTTCATGACGGGCAGGCACTGTGGCTACGTGCTGCAGCCAAGCACCATGCGGGATGAGGCCTTCGA
CCCCTTTGACAAGAGCAGCCTCCGCGGGCTGGAGCCATGTGCCATCTCTATTGAGGTGCTGGGGGCCGACATCT
GCCAAAGAATGGCCGAGGCATTGTGTGTCCTTTTGTGGAGATTGAGGTGGCTGGAGCTGAGTATGACAGCACCAA
GCAGAAGACAGAGTTTGTGGTGGACAATGGACTCAACCTGTATGGCCAGCCAAGCCCTTCCACTTCCAGATCAG
TAACCTGAATTTGCCTTTCTGCGCTTCGTGGTGTATGAGGAAGACATGTTTAGTGACCAGAATTTCTGGCTCA

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FIGURE 5771B

GGCTACTTTCCAGTAAAAGGCCTGAAGACAGGATACAGAGCAGTGCCTTTGAAGAACAACCTACAGTGAGGACCT
GGAGTTGGCCTCCCTGCTGATCAAGATTGACATTTTCCCTGCCAAGGAGAATGGTGACCTCAGTCCCTTCAGTGG
TACGTCCCTGCGGGAGCGGGGCTCAGATGCCTCAGGCCAGCTGTTTCATGGCCGAGCCCGGGAAGGCTCCTTTGA
ATCCCGCTACCAGCAGCCGTTTGAGGACTTCCGCATCTCCCAGGAGCATCTCGCAGACCATTTTGACAGTCGAGA
ACGAAGGGCCCCAAGAAGGACTCGGGTCAATGGAGACAACCGCCTCTAGTTGTACCCCAGCCTCGTTGGAGAGCA
GCAGGTGCTGTGCGCCTTGTTAGAAATGCCGCGAACTGGGTTCTTTGGAAGCAGCCCCCTGTGGCGGCCTTCCGGGT
CTCGCAGCCTGAAGCCTGGATTCCAGCAGTGAATGCTAGACAGAAACCAAGCCATTAATGAGATGTTATTACTGT
TTTGGGCCTCCATGCCCCAGCTCTGGATGAAGGCAAAAACCTGTACTGTGTTTCGCATTAAGCACACACATCTGGC
CCTGACTTCTGGAGATGGATCCTTCCATCTTGTGGGGCCAGGACCATGGCCGAAGCCCCTTGGAGAGAGAGGCTG
CCTCAGCCAGTGGCACAGGAGACTCCAAGGAGCTACTGACATTCCTAAGAGTGGAGGAGGAGGAGGCCTTGCT
GGGCCAGGGAAACAAAGTTTACATTGTCCTGTAGCTTTAAAACCACAGCTGGGCAGGG

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FIGURE 5772

MAGAASPCANGCGPGAPSDAEVLHLCRSLEVGTVMTLFYSKKSQRPERKTFQVKLETRQITWSRGADKIEGAIDI
REIKEIRPGKTSRDFDRYQEDPAFRPDQSHCFVILYGMFRLKTLSLQATSEDEVNMWIKGLTWLMEDTLQAPTP
LQIERWLRKQFYSDRNREDRISAKDLKNMLSQVNYRVPMRFLRERLTDLEQRSGDITYGQFAQLYRSLMYSAQ
KTMDLPFLEASTLRAGERPELCRVSLPEFQQFLLDYQGELWAVDRQLQVQEFMLSFLRDPLREIEEPYFFLDEFVT
FLFSKENS VWSQLDAVCPDTMNNPLSHYWISSSHNTYLTGDQFSSESSLEAYARCLRMGCRCIELDCWDGPDGM
PVIYHGHTLTTKIKFSDVLHTIKEHAFVASEYPVILSIEDHCSIAQQRNMAQYFKKVLGDTLLTKPVEISADGLP
SPNQLKRKILIKHKKLAEGSAYEEVPTSMYSENDISNSIKNGILYLEDPVNHEWYPHYFVLTSSKIYYSEETSS
DQGNEDDEEPKEVSSSTELHSNEKWFGKLGAGRDGRHIAERLLTEYCIETGAPDGSFLVRESETFVGDYTLFSW
RNGKVQHCRHSRQDAGTPKFFLTDNLVFDLSLYDLITHYQQVPLRCNEFEMRLSEPVPQTNAHESKEWYHASLTR
AQAEHMLMRVPRDGAFLVRKRNEPNSYAISFRAEGKIKHCRVQQEGQTVMLGNSEFDSLVDLISYYEKHPLYRKM
KLRYPINEEAEKIGTAEPDYGALYEGRNPGFYVEANPMPTFKCAVKALFDYKAQREDELTFIKSAIIQNVEKQE
GGWWRGDYGKKQLWFPSNYVEEMVNPVALEPEREHLDENSP LGDLLRGVLDVPACQIAIRPEGKNNRLFVFSIS
MASVAHWSLDVAADSQEELQDWVKKIREVAQTADARLTEGKIMERRKKIALELSELVVYCRPVPFDEEKIGTERA
CYRDMSSFPETKAKEYVNKAKGKKFLQYNRLQLSRIYPKGQRLDSSNYDPLPMWICGSQ LVALNFQTPDKPMQMN
QALFMTGRHCGYVLQPSTMRDEAFDPFDKSSLRGLEPCAISIEVLGARHLPKNGRGIVCPFVEIEVAGAEYDSTK
QKTEFVVDNGLNPVWPAKPFHFQISNPEFAFLRFVVEEDMFSDQNFLAQATFPVKGLKTGYRAVPLKNNYSED
ELASLLIKIDIFPAKENGDLSPFSGTSLRERGS DASGQLFHGRAREGSFESRYQQPFEDFRISQEHLDHFDSRE
RRAPRRTRVNGDNRL

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FIGURE 5773

TAAGAGTCATCACTTCTGCTGAGTAGGCAAAACAATGAACTATAACAACAGACATCATTTTCTTTCCTTAAATTC
TGAGGTTTATGCTGGAAAAATAAACCCATTTCTTTATAAACATCTAATTAAATAAAGTATCAAAGAAAAATAAGAT
AATGGAAGAAGCATCCGCCTTTTGGGGCACTATATTCTAAGGTTGGGCTTTAAGATTTTTTAACAGGAAACCCA
GGAATTTCTGAAAAACAAGGCCTTTTTCACATTACCAAGAACTCACAGCTACTCTGTGAATGCCCTAGATATTTG
ACTCAAATTTTTCACTCAATCTTATTAGGTATATTTCTGGATTATTTGAATCTACAAACCAACCCTAGAATATCA
TGCTTTCCAGTCACACCTGTGGCACAATGAGCAGTGTACGACCATGCCCCATCACAATCCAACCCTGGTACCCT
ACATTGTGACACCTCCTAGAAAGGTATTAAAGCTGAGCCAATTAATCTATATTTTGATTTGAGACTAAGATTAAT
AAATGCTTTTAAATAAAGTAACTTTAAAGGTATCTGAACAAAGGGATGTAAGGTTAATTCATTCTCAAACCTGCA
ATTTCAACTCATCAGGCTTATGGATGTATGGACTAATTGCTAACCTAGTAACTCCTACAAATTTGCAGTATTCAA
AGCGTTTACCCATTTCACTGTTTTTCAAACCAATTACACAAAGCATTAAAATTTACAAGTATGATCTAACCAATT
ATCAAATAATCCCACTAACTACAAAGGGGACTGACTACTGGGTGGAACCTAACTGGCAACTGACTTTACTGAGAT
TAAGTGCCTGTTAAACATAATGATCTTTCAGCAGAAAATGCAGTATGTGCTTTTACACTTTGAATAAACTCAATT
TCAGAACAAAAAGAGGCTACTTCCATTTCCACATGACAAACATTAAAG

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FIGURE 5774

GCTGACGCCTTCGAGCGCGGCCCGGGGCCCGGAGCGGCCGGAGCAGCCCGGGTCCTGACCCCGGCCCGGGCTCCCG
CTCCGGGGCTCTGCCGGCGGGCGGGCGAGCGCGGCCGGTCCGGGGCCGGGGGGATGCTCTCGGCGGACGCGCTGCGA
GGATCTGGATGAGCTGCACTACCAGGACACAGATTAGATGTGCCGGAGCAGAGGGATAGCAAGTGCAAGGTCAA
ATGGACCCATGAGGAGGACGAGCAGCTGAGGGCCCTGGTGAGGCAGTTTGACAGCAGGACTGGAAGTTCCTGGC
CAGCCACTTCCCTAACCGCACTGACCAGCAATGCCAGTACAGGTGGCTGAGAGTTTTGAATCCAGACCTTGTC
GGGGCCATGGACCAAAGAGGAAGACCAAAAAGTCATCGAGCTGGTTAAGAAGTATGGCACAAGCAGTGAGACT
GATTGCCAAGCACCTGAAGGGCCGGCTGGGGGAAGCAGTGCCGTGAACGCTGGCACAACCACCTCAACCCTGAGGT
GAAGAAGTCTTGCTGGACCGAGGAGGAGGACCGCATCATCTGCGAGGCCCACAAGGTGCTGGGCAACCGCTGGGC
CGAGATCGCCAAGATGTTGCCAGGGAGGACAGACAATGCTGTGAAGAATCACTGGAACTCTACCATCAAAAGGAA
GGTGGACACAGGAGGCTTCTTGAGCGAGTCCAAAGACTGCAAGCCCCCAGTGTAAGTCTGCTGCTGGAGCTCGAGGA
CAAGGACGGCCTCCAGAGTGCCAGCCACGGAAGGCCAGGGAAGTCTTCTGACCAACTGGCCCTCCGTCCCTCC
TACCATAAAGGAGGAGGAAAACAGTGAGGAGGAAGTTCAGCAGCCACCACATCGAAGGAACAGGAGCCCATCGG
TACAGATCTGGACGCAGTGCGAACACCAGAGCCCTTGAGGAATTCCTGAAGCGTGAGGACCAGGAAGGCTCCCC
ACCAGAAACGAGCCTGCCCTTACAAGTGGGTGGTGAGGCAGCTAACCTCCTCATCCCCGCTGTGGGTTCTAGCCT
CTCTGAAGCCCTGGACTTGATCGAGTCGACCCCTGATGCTTGGTGTGACCTGAGTAAATTTGACCTCCCTGAGGA
ACCATCTGCAGAGGACAGTATCAACAACAGCCTAGTGCAGCTGCAAGCGTCACATCAGCAGCAAGTCTGCCACC
CCGCCAGCCTTCCGCCCTGGTGCCAGTGTGACCGAGTACCGCCTGGATGGCCACACCATCTCAGACCTGAGCCG
GAGCAGCCGGGGCGAGCTGATCCCCATCTCCCCCAGCACTGAAGTCGGGGGCTCTGGCATTGGCACACCGCCCTC
TGTGCTCAAGCGGCAGAGGAAGAGGCGTGTGGCTCTGTCCCTGTCACTGAGAATAGCACCAGTCTGTCTTCTCT
GGATTCTGTAAACAGCCTCAGGCCAAGAGCACACCTGTAAAGACCCTGCCCTTCTCGCCCTCCAGTTTCTGAA
CTTCTGGAACAAACAGGACACATTGGAGCTGGAGAGCCCTCGCTGACATCCACCCAGTGTGCAGCCAGAAGGT
GGTGGTCACCACACCACTGCACCGGGACAAGACACCCCTGCACCAGAAACATGCTGCGTTTGTAAACCCAGATCA
GAAGTACTCCATGGACAACACTCCCCACACGCCAACCCCGTTCAAGAACGCCCTGGAGAAGTACGGACCCCTGAA
GCCCTGCCACAGACCCCGCACCTGGAGGAGGACTTGAAGGAGGTGCTGCGTTCTGAGGCTGGCATCGAACTCAT
CATCGAGGACGACATCAGGCCCGAGAAGCAGAAGAGGAAGCCTGGGCTGCGGCGGAGCCCCATCAAGAAAGTCCG
GAAGTCTCTGGCTCTTGACATTGTGGATGAGGATGTGAAGCTGATGATGTCCACACTGCCCAAGTCTCTATCCTT
GCCGACAACCTGCCCTTCAAACCTCTTCCAGCCTCACCTGTGAGGTATCAAAGAAGACAACAGCTTGCTCAACCA
GGGCTTCTTGAGGCCAAGCCCGAGAAGGCAGCAGTGGCCAGAAGCCCCGAAGCCACTTCACGACACCTGCCCC
TATGTCCAGTGCCTGGAAGACGGTGGCCTGCGGGGGGACCAGGGACCAGCTTTTTCATGCAGGAGAAAGCCCGGCA
GCTCCTGGGCGCCTGAAGCCAGCCACACATCTCGGACCCTCATCTTGTCTCTGAGGTGTTGAGGGTGTACAGAG
CCCATTCTCATGTTTACAGGGGTTGTGGGGGCGAGGGGGTCTGTGAATCTGAGAGTCATTAGGTGACCTCCTG
CAGGGAGCCTTCTGCCACCAGCCCTCCCCAGACTCTCAGGTGGAGGCAACAGGGCCATGTGCTGCCCTGTTGCC
GAGCCAGCTGTGGGCGGCTCCTGGTGCTAACAACAAAGTTCCACTTCCAGGTCTGCCTGGTTCCCTCCCCAAGG
CCACAGGGAGCTCCGTGAGCTTCTCCCAAGCCACGTCAGGCCTGGCCTCATCTCAGACCCTGCTTAGGATGGGG
GATGTGGCCAGGGGTGCTCCTGTGCTCACCTCTCTTGGTGCAATTTTTTTGGAAGAATAAAATTGCCTCTCTCTT
TG

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FIGURE 5775

MSRRTRCEDLDELHYQDSDVPEQRDSKCKVKWTHEEDEQLRALVRQFGQQDWKFLASHFPNRTDQQCQYRWLR
VLNPDVLKGPWTKEEDQKVIELVKKYGTKQWTLIAKHLKGRLGKQCRERWHNHLNPEVKKSCWTEEDRIICEAH
KVLGNRWAEIAKMLPGRTDNAVKNHWNSTIKRKVD TGGFLSESKDCKPPVYLLLELEDKDGLQSAQPT EGQGSLL
TNWPSVPPTIKEEENSEEELAAATTSKEQEP IGTDLDAVRTPEPLEEFPKREDQEGSPPETSLPYKWWVEAANLL
IPAVGSSLSEALDLIESDPDAWCDLSKFDLPPEPSAEDSINNSLVQLQASHQQQVLPPRQPSALVPSVTEYRLDG
HTISDLRSSRGELIPISPSTEVGGSGIGTPPSVLKRQRKRRVALSPVTENSTLSFLDSCNSLTPKSTPVKTLP
FSPSQFLNFWNKQDTLELESPSLTSTPVCSQKVVTTP LHRDKTPLHQKHA AFVTPDQKYSMDNTPHTPTPFKNA
LEKYGPLKPLPQTPHLEEDLKEVLRSEAGIELI IEDDIRPEKQKRKPLRRSPIKKVRKSLALDIVDEDVKLMMS
TLPKSLSLPTTAPSNSSSLTSGIKEDNSLLNQGFLQAKPEKA AAVAQKPRSHFTTPAPMSSAWKTVACGGTRDQL
FMQEKARQLLGR LKPSHTSRTLILS

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FIGURE 5776

ACCGCTGGCCCCAGGGAAAGCCGAGCGGCCACCGAGCCGGCAGAGACCCACCGAGCGGCGGGCGGAGGGAGCAGCG
CCGGGGCGCACGAGGGCACCATGGCCCAGACGCCCCTTCGACAAGCCCCAAAGTGAAACTGCATGTCCACCTAG
ACGGATCCATCAAGCCTGAAACCATCTTATACTATGGCAGGAGGAGAGGGATCGCCCTCCCAGCTAACACAGCAG
AGGGGCTGCTGAACGTCATTGGCATGGACAAGCCGCTCACCCCTCCAGACTTCCTGGCCAAGTTTGACTACTACA
TGCTTGCTATCGCGGGCTGCCGGGAGGCTATCAAAAGGATCGCCTATGAGTTTGTAGAGATGAAGGCCAAAGAGG
GCGTGGTGTATGTGGAGGTGCGGTACAGTCCGCACCTGCTGGCCAACCTCCAAAGTGGAGCCAATCCCCTGGAACC
AGGCTGAAGGGGACCTCACCCCAGACGAGGTGGTGGCCCTAGTGGGCCAGGGCCTGCAGGAGGGGGAGCGAGACT
TCGGGGTCAAGGCCCCGGTCCATCCTGTGCTGCATGCGCCACCAGCCCCAAGTGGTCCCCCAAGGTGGTGGAGCTGT
GTAAGAAGTACCAGCAGCAGACCGTGGTAGCCATTGACCTGGGTGGAGATGAGACCATCCCAGGAAGCAGCCTCT
TGCTGGACATGTCCAGGCCTACCAGGAGGCTGTGAAGAGCGGCATTACCGTACTGTCCACGCCGGGGAGGTGG
GCTCGGCCGAAGTAGTAAAAGAGGCTGTGGACATACTCAAGACAGAGCGGCTGGGACACGGCTACCACACCCTGG
AAGACCAGGCCCTTTATAACAGGCTGCGGCAGGAAAACATGCACTTCGAGATCTGCCCCCTGGTCCAGCTACCTCA
CTGGTGCCTGGAAGCCGGACACGGAGCATGCAGTCATTGCGCTCAAAAATGACCAGGCTAACTACTCGCTCAACA
CAGATGACCCGCTCATCTTCAAGTCCACCCTGGACACTGATTACCAGATGACCAAACGGGACATGGGCTTTACTG
AAGAGGAGTTTAAAAGGCTGAACATCAATGCGGCCAAATCTAGTTTCTCTCCAGAAGATGAAAAGAGGGAGCTTC
TCGACCTGCTCTATAAAGCCTATGGGATGCCACCTTCAGCCTCTGCAGGGCAGAACCTCTGAAGACGCCACTCCT
CCAAGCCTTCACCCTGTGGAGTCACCCCAACTCTGTGGGGCTGAGCAACATTTTACATTTATTCCTTCCAAGAA
GACCATGATCTCAATAGTCAGTTACTGATGCTCCTGAACCCTATGTGTCCATTTCTGCACACACGTATACCTCGG
CATGGCCGCGTCACTTCTCTGATTATGTGCCCTGGCCAGGGACCAGCGCCCTTGACATGGGCATGGTTGAATCT
GAAACCTCCTTCTGTGGCAACTTGTACTGAAAATCTGGTGTCAATAAAGAAGCCCATGGCTGGTGGCATGC

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FIGURE 5777

MAQTPAFDKPKVKLHVHLDGSIKPETILYYGRRRGIALPANTAEGLLNVIGMDKPLTLPDFLAKFDYYMPAAGC
REAIKRIAYEFVEMKAKEGVVYVEVRYSPHLLANSKVEPIPNQAEGDLTPDEVVALVGQGLQEGERDFGVKARS
ILCCMRHQPNWSPKVVELCKYQQQTVAIDLAGEDETIPGSSLLPGHVQAYQEAVKSGIHRTVHAGEVGSAEVVK
EAVDILKTERLGHGHTLEDQALYNRLRQENMHFEICPWSSYLTGAWKPDTEHAVIRLKNDQANYSLNTDDPLIF
KSTLDTDYQMTKRDMGFTEEEFKRLNINAAKSSFLPEDEKRELLDLYKAYGMPPSASAGQNL

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FIGURE 5778

GTTGCTGTTGGGCGGAGATATTCGCCGCCGGCGCTTGCGCCCGGAAGGTGTGCCGCACCACACGGGGGAGGAAG
GAAGGAGCTCCCAACTCGCCGGCCTGGCCACGGGATGGCCCCAAATTCCCAGACTCTGTGGAGGAGCTCCGCGC
CGCCGGCAATGAGAGTTTCCGCAACGGCCAGTACGCCGAGGCCTCCGCGCTCTACGGCCGCGCGCTGCGGGTGCT
GCAGGCGCAAGGTTCTTCAGACCCAGAAGAAGAAAGTGTTCCTCTACTCCAACCGAGCAGCATGTCACTTGAAGGA
TGGAAACTGCAGAGACTGCATCAAAGATTGCACCTCAGCACTGGCCTTGTTCCCTTCAGCATTAAGCCCCGTGCT
GCGGCGAGCATCTGCTTATGAGGCTCTGGAGAAGTACCCTATGGCCTATGTTGACTATAAGACTGTGCTGCAGAT
TGATGATAATGTGACGTACGCCGTAGAAGGCATCAACAGAATGACCAGAGCTCTCATGGACTCGCTTGGGCCTGA
GTGGCGCCTGAAGCTGCCCTCAATCCCTTGTTGCCTGTTTCAGCTCAGAAGAGGTGGAATTCCTTGCCCTTCGGA
GAACCACAAAGAGATGGCTAAAAGCAAATCCAAAGAAACCACAGCTACAAAGAACAGAGTGCCTTCTGCTGGGGA
TGTGGAGAAAGCCAGAGTTCTGAAGGAAGAAGGCAATGAGCTTGTAAGAAGGGAAACCATAAGAAAGCTATTGA
GAAGTACAGTGAAAGCCTCTTGTGTAGTAACCTGGAATCTGCCACGTACAGCAACAGAGCACTCTGCTATTTGGT
CCTGAAGCAGTACACAGAAGCAGTGAAGGACTGCACAGAAGCCCTCAAGCTGGATGGAAGAACGTGAAGGCATT
CTACAGACGGGCTCAAGCCCACAAAGCACTCAAGGACTATAAATCCAGCTTTGCAGACATCAGCAACCTCCTACA
GATTGAGCCTAGGAATGGTCTGCACAGAAGTTGCGGCAGGAAGTGAAGCAGAACCTACACTAAAAACCCAACAG
GGCAACTGGAACCCCTGCCTGACCTTACCCAGAGAAGCCATGGGCCACCTGCTCTGTGCCCCGCTCCTGAAACCCA
GCATGCCCCAAGTGAGCTCTGAAGCCCCCTCCTCAATCCCTTGATGGCCTCCACCCCTGTAAGAGGCTTTGCTTG
TTCAAATTAAGCTCAGTGAGTCAACACAGACATGGTTGTTGCACCAGAAAGGTCCCCACTAGAGCTAAGCGTG
AAGCTGAAGCTCTGTCCCTATTCCCCAGCCCAGCTAGCTGATCACACCAACAGATCCTCATCAGCAAAGCATT
GGCTTTGTCTGCCCCAAGTGGGCTGCAGACTGAGTGCTGCCCTTGTTAGCTTCCCCAGACCCCAACTCACTGCAGT
TCATCTGAACAACCTGAGCTCCTGGGCCGGGGTGGAAGGAGGGGGATAAACCTAAGGCCCTGATCCAAAGCAGCC
TGTTGAGCTGGTTCTCCAGGGCTGCAGTCTCTCCAGGTGTACAGCTGCTGTCCCTGCCCTGTCTGTCTTGCAC
AGTCTCCTATGTCTGAGCCCCAGTGCCTTCTGTTCCGGGCCCTCCTTTGGTGGGAAGGCAGAGCCCTGACCCTTGA
ATGGTTGTCTTGAAGTCTGTGCTGCTGCCTTCTGCAGAGAGGCACCTAAGCTGTTTAAAGAGCCCAGTGATTGTG
GCTGCTCCTCCTAGAGGTGGGAGGGGGCAAGAGGCCTCCTTGCTCAGTGTCCATGCTTTCTGGGCAGGGACTTGG
TTTTTTGTTCCAACAGTGGCCTTCTCCGGGCTTCATAGTTCTTTGTAATATGTTGAAGTTAATTGAATTGACTG
ATTTTGTGAACTGTGTGTTTAAAGCTGTTGCATTAAAAAGCTTTCTTCTACATCAATATCTGCTGTGCTTTTATT
TATGCCTTTTTCAGCTTTGCACCTGGAAGTCTGTAGTAATAATAAAAGTTATTGCTTATTGGGCATT

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FIGURE 5779

CAATACAGCTAAGGAATTATCCCTTGTAATACCACAGACCCGCCCTGGAGCCAGGCCAAGCTGGACTGCATAAA
GATTGGTATGGCCTTAGCTCTTAGCCAAACACCTTCCTGACACCAATGAGGGCCAGCAGCTTCTTGATCGTGGTGG
TGTTCTCATCGCTGGGACGCTGGTTCTAGAGGCAGCTGTCACGGGAGTTCCTGTTAAAGGTCAAGACACTGTCA
AAGGCCGTGTTCCATTCAATGGACAAGATCCCGTTAAAGGACAAGTTTCAGTTAAAGGTCAAGATAAAGTCAAAG
CGCAAGAGCCAGTCAAAGGTCCAGTCTCCACTAAGCCTGGCTCCTGCCCCATTATCTTGATCCGGTGCGCCATGT
TGAATCCCCCTAACCGCTGCTTGAAAGATACTGACTGCCCAGGAATCAAGAAGTGCTGTGAAGGCTCTTGCGGGA
TGGCCTGTTTCGTTCCCCAGTGAAGGGAGCCGGTCCTTGCTGCACCTGTGCCGTCCCCAGAGCTACAGGCCCCAT
CTGGTCCTAAGTCCCTGCTGCCCTTCCCCTTCCCACACTGTCCATTCTTCTCCCATTCAGGATGCCCACGGCTG
GAGCTGCCTCTCTCATCCACTTTCCAATAAA

6258/6881
FIGURE 5780

MRASSFLIVVVFLIAGTLVLEAAVTGVPVKGQDTVKG RVPFNGQDPVKGQVSVKGQDKVKAQEPVKGPVSTKPGS
CPIILIRCAMLNPPNRCLKDTCPGIKKCEGSCGMACFVPQ

6259/6881
FIGURE 5781

CAGAGTCACTCCTGCCTTCACCATGAAGTCCAGCGGCCTCTTCCCCTTCCTGGTGCTGCTTGCCCTGGGAACTCT
GGCACCTTGGGCTGTGGAAGGCTCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCCTCCTAAGAAATCTGCCCAGTG
CCTTAGATACAAGAAACCTGAGTGCCAGAGTGACTGGCAGTGTCCAGGGAAGAAGAGATGTTGTCCTGACACTTG
TGGCATCAAATGCCTGGATCCTGTTGACACCCCAAACCCAACAAGGAGGAAGCCTGGGAAGTGCCCAGTGACTTA
TGGCCAATGTTTGATGCTTAACCCCCCAATTTCTGTGAGATGGATGGCCAGTGCAAGCGTGACTTGAAGTGTTG
CATGGGCATGTGTGGGAAATCCTGCGTTTCCCCTGTGAAAGCTTGATTTCCTGCCATATGGAGGAGGCTCTGGAGT
CCTGCTCTGTGTGGTCCAGGTCCTTTCCACCCTGAGACTTGGCTCCACCACTGATATCCTCCTTTGGGGAAAGGC
TTGGCACACAGCAGGCTTTCAAGAAGTGCCAGTTGATCAATGAATAAATAAACGAGCCTATTTCTCTTTGCAC

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FIGURE 5782

MKSSGLFPFLVLLALGTLAPWAVEGSGKSFKAGVCPFKKSAQCLRYKKPECQSDWQCPGKKRCCPDTCGIKCLDP
VDTNPTRRKPGKCPVTYQCLMLNPPNFCEMDGQCKRDLKCCMGMCVKSCVSPVKA

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FIGURE 5783

GCGGCTATGCCGCTCTGGCTCTGCTCGTCCTGTTGCTCCTGGGGCCCCGGCGGCTGGTGCCTTGCAGAACCCCCACG
CGACACCTGCGGGAGGAACTTGTTCATCACCCCGCTGCCTTCCGGGGACGTAGCCGCCACATTCCAGTTCCGCACG
CGCTGGGATTTCGGAGCTTCAGCGGGAAGGAGTGTCCATTACAGGCTCTTTCCCAAAGCCCTGGGGCAGCTGATC
TCCAAGTATTCTCTACGGGAGCTGCACCTGTCATTACACAAGGCTTTTGGAGGACCCGATACTGGGGGCCACCC
TTCCTGCAGGCCCCATCAGGTGCAGAGCTGTGGGTCTGGTTCCAAGACACTGTCACTGATGTGGATAAATCTTGG
AAGGAGCTCAGTAATGTCTCTCAGGGATCTTCTGCGCCTCTCTCAACTTCATCGACTCCACCAACACAGTCACT
CCCCTGCCTCCTTCAAACCCCTGGGTCTGGCCAATGACACTGACCACTACTTTCTGCGCTATGCTGTGCTGCCG
CGGGAGGTGGTCTGCACCGAAAACCTCACCCCTGGAAGAAGCTCTTGCCCTGTAGTTCCAAGGCAGGCCCTCTCT
GTGCTGCTGAAGGCAGATCGCTTGTTCACACCAGCTACCACTCCCAGGCAGTGCATATCCGCCCTGTTTGCAGA
AATGCACGCTGTACTAGCATCTCCTGGGAGCTGAGGCAGACCCTGTGAGTTGTATTTGATGCCTTCATCAGGGG
CAGGGAAAGAAAGACTGGTCCCTCTTCCGGATGTTCTCCGAACCTCACGGAGCCCTGCCCCCTGGCTTCAGAG
AGCCGAGTCTATGTGGACATCACCACTACAACCAGGACAACGAGACATTAGAGGTGCACCCACCCCGACCACT
ACATATCAGGACGTATCTAGGCACTCGGAAGACCTATGCCATCTATGACTTGCTTGACACCGCCATGATCAAC
AACTCTCGAAACCTCAACATCCAGCTCAAGTGGAAAGAGACCCCAAGAGAATGAGGCCCCCCCCAGTGCCCTTCTCTG
CATGCCCAGCGGTACGTGAGTGGCTATGGGCTGCAGAAGGGGGAGCTGAGCACACTGCTGTACAACACCCACCCA
TACCGGGCCTTCCCGGTGCTGCTGCTGGACACCGTACCCTGGTATCTGCGGCTGTATGTGCACACCCCTCACCATC
ACCTCCAAGGGCAAGGAGAACAACCAAGTTACATCCACTACCAGCCTGCCAGGACCGGCTGCAACCCACCTC
CTGGAGATGCTGATTGAGCTGCCGGCCAACTCAGTCACCAAGGTTTCCATCCAGTTTGAGCGGGCGCTGCTGAAG
TGGACCGAGTACACGCCAGATCCTAACCATGGCTTCTATGTGAGCCATCTGTCCTCAGCGCCCTTGTGCCCAGC
ATGGTAGCAGCCAAGCCAGTGGACTGGGAAGAGAGTCCCTCTTCAACAGCCTGTTCCAGTCTCTGATGGCTCT
AACTACTTTGTGCGGCTCTACACGGAGCCGCTGCTGGTGAACCTGCCGACACCGGACTTCAGCATGCCCTACAAC
GTGATCTGCCTCACGTGCACTGTGGTGGCCGTGTGCTACGGCTCCTTCTACAATCTCCTCACCCGAACCTTCCAC
ATCAGGAGCCCCGCACAGGTGGCTGGCCAAGCGGCTGGCCAACCTTATCCGGCGCGCCGAGGTGTCCCCCA
CTCTGATTCTTGCCCTTTCCAGCAGCTGCAGCTGCCGTTTCTCTCTGGGGAGGGGAGCCCAAGGGCTGTTTCTGC
CACTTGCTCTCCTCAGAGTTGGCTTTTGAACCAAAGTGCCCTGGACCAGGTGAGGGCTACAGCTGTGTTGTCCA
GTACAGGAGCCACGAGCCAAATGTGGCATTGAAATTTGAATTAACCTAGAAATTCATTTCTCACCTGTAGTGGC
CACCTCTATATTGAGGTGCTCAATAAGCAAAAGTGGTCGGTGGCTGCTGTATTGGACAGCACAGAAAAAGATTTC
CATCACACAGAAAGGTGGCTGGCAGCACTGGCCAAGGTGATGGGGTGTGCTACACAGTGTATGTCACTGTGTA
GTGGATGGAGTTTACTGTTTGTGGAATAAAAACGGCTGTTTCCGTGCAACACAAAAA

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FIGURE 5784

MPSGSARPVAPGARRLVPCRTPTRHLREELVITPLPSGDVAATFQFRTRWDSELQREGVSHYRLFPKALGQLISK
YSLRELHLSFTQGFWRTRYWGPPFLQAPSGAELWVWFQDTVTDVDSWKELSNVLSGIFCASLNFIDSTNTVTPT
ASFKPLGLANDTDHYFLRYAVLPREVVCTENLTPWKLLPCSSKAGLSVLLKADRLFHTSYHSQAVHIRPVCRNA
RCTSISWELRQTLVVFDAFITGQGKKDWSLFRMFSTRLTEPCPLASESRVYVDITTYNQDNETLEVHPPPTTTY
QDVILGTRKTYAIYDLLDTAMINNSRNLNIQLKWKRPPENEAPPVPFLHAQRYVSGYGLQKGELSTLLYNTHPYR
AFPVLLLDTPWPYLRLYVHTLTITISKGKENKPSYIHYQPAQDRLQPHLLEMLIQLPANSVTKVSIQFERALLKWT
EYTPDPNHGFYVSPSVLSALVPSMVAAPVDWEESPLFNSLFPVSDGSNYFVRLYTEPLLVLNLPDPFSMPYNVI
CLTCTVVAVCYGSFYNNLLTRTFHIEEPRTGGLAKRLANLIRRARGVPPL

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FIGURE 5785

GGCACGAGCGAGTTCTGTCTCTCTGCCAACGCCGCCCGGATGGCTTCCCAAACCGCGACCCAGCCGCCACTAG
CGTCGCCGCCGCCCGTAAAGGAGCTGAGCCGAGCGGGGGCGCCGCCCGGGGTCCGGTGGGC AAAAGGCTACAGCA
GGAGCTGATGACCCCTCATGATGTCTGGCGATAAAGGGATTTCTGCCTTCCCTGAATCAGACAACCTTTTCAAATG
GGTAGGGACCATCCATGGAGCAGCTGGAACAGTATATGAAGACCTGAGGTATAAGCTCTCGCTAGAGTTCCTCCAG
TGGCTACCCCTTACAATGCGCCACAGTGAAGTTCCTCACGCCCTGCTATCACCCCAACGTGGACACCCAGGGTAA
CATATGCCTGGACATCCTGAAGGAAAAAGTGGTCTGCCCTGTATGATGTCAGGACCATTCTGCTCTCCATCCAGAG
CCTTCTAGGAGAACCCAACATTGATAGTCCCTTGAACACACATGCTGCCGAGCTCTGGAAAAACCCACAGCTTT
TAAGAAGTACCTGCAAGAAACCTACTCAAAGCAGGTCACCAGCCAGGAGCCCTTGACCCAGGCTGCCCAGCCTGTC
CTTGTCGTCGTCCTTTTAAATTTTTCCTTAGATGGTCTGTCCTTTTGTGATTTCTGTATAGGACTCTTTATCTTGA
GCTGTGGTATTTTTGTTTTGTTTTGTCTTTTAAATTAAGCCTCGGTTGAGCCCTTGTATATTAAATAAATGCAT
TTTTGTCCTTTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5786

MASQNRDPAATSVAAARKGAEP SGGAARGPVGKRLQQELMTLMMSGDKGISAFPESDNLFKWVGTIHGAAGTVYE
DLRYKLSLEFP SGYPYNAPT VKFLTPCYHPNVD TQGNICLDILKEKWSALYDVRTILLSIQSLLGEPNIDSPLNT
HAAELWKNPTAFKKYLQETYSKQVTSQEP

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FIGURE 5787

GAACCCGGCCGACCTCCATGGGCTGCGGGGGGCTGCACCCGGACCCCTGGGGCGCGGCGCGCCCTGAATGCACC
GTGGGACGCAGGAGGGTGCCATGGCCTCCCGGCTCCTGCACCCGGCTGCGGCACGCCTTGGCCGGCGACGGCCCCG
GGGAGGCGGCGGCCAGTCCAGAGGCCGAGCAGTTTCCGGAGAGCTCAGAGCTGGAGGACGACGACGCCGAGGGCC
TGTCTCCCGACTCAGCGGCACCCTCAGCTTACCAGCGCCGAGGACGACGAGGACGACGAGGACGAGGACGACG
AGGAGGCTGGCCCTGACCAGCTGCCCCCTCGGGGATGGGACGTGAGGAGAAGACGCAGAACGGAGCCCCCACCTG
ATGGGCAGTGGGGCAGTCAGCTCCTGGCGCGGCAGCTGCAGGATTTCTGGAAGAAGTCCCGGAACACCTTGGCAC
CCCAGCGGCTGCTCTTCGAAGTGACCAGCGCTAACGTTGTCAAGGACCCGCCCTCCAAGTACGTGCTCTACACCC
TCGCCGTGATCGGCCCAGGACCGCCAGATTGCCAGCCAGCCCAGATCTCTCGCCGTTACTCGGACTTTGAGCGGC
TGCACCGAAACCTGCAGCGGCAATTCCGGGGCCCAATGGCTGCCATCTCCTTCCCCCGTAAGCGGCTGCGCCGGA
ATTTTACTGCAGAGACCATTGCCCGCCGTAGCCGGGCCTTTGAGCAGTTTTTTGGGTACCTGCAGGCAGTGCCTG
AGCTGCGCCATGCCCCGGACCTGCAGGACTTCTTCGTGCTGCCGGAGCTGCGGCGGGCACAGAGCCTCACCTGTA
CTGGCCTCTATCGTGAGGCTCTGGCACTCTGGGCAATGCCTGGCAGCTGCAAGCCCAGCTGGGCACCCCCTCTG
GCCCAGACCGCCCCCTGCTGACCCTGGCTGGGCTGGCCGTGTGCCACCAGGAGCTGGAAGACCCTGGAGAGGCCC
GGGCATGCTGTGAGAAGGCCCTGCAGCTGCTTGGGGACAAGAGCCTCCACCCTTTGCTGGCACCCCTTTCTGGAGG
CCCATGTCCGGCTCTCCTGGCGCCTGGGCCTGGACAAACGTCAATCAGAGGCTCGGCTCCAAGCCCTGCAGGAGG
CAGGCCTTACCCCCACACCACCCCCCAGTCTCAAAGAATTGCTCATCAAGGAGGTGCTGGACTTAACCCTTGCTTA
GATTTAAGGCCACTGTGAGGAGAGGGGTTGCCCCAGAAGGCAGGGGAAGGACCTGATGAGAACAGAATAGCTGGG
AGGCTGCAGAGGGTGCTGGGAGCCCCTAGAAGTTCCAAAAGAGAATGTGAAGCAGATCAAGGAACTTCTGTTGA
GCTAGGCTCAGGGTGAGCTTTGGCTGGGGTTGCCCTTGTGTAGTACAGGGAAGTCTGACACAGCCTCTCCAGCCT
ATAAACAGCCGGGGGGCTGTGGCACAGGTTGGGGCAATGTTCCCTTGTGTTGGTGGGCCCCCAAGCTGGCAAGGCCT
CTTGGCTGAAGGCCAGGGACTCTGCCCCCTGGAGTCCTGGAGTTAAGGGATGAAGGCAAGGCTGCAGGTCTGGCCC
AGGGGAATTAAAAGCCAGCCACTCC

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FIGURE 5788

MHRGTQEGAMASRLLRHLRHALAGDGPGEAAASPEAEQFPESSELEDDDAEGLSSRLSGTLSFTSAEDDEDDEDE
DDEEAGPDQLPLGDGTSGEDAERSPPPDGQWGSQLLARQLQDFWKKSRNTLAPQRLLEFVTSANVVKDPPSKYVL
YTLAVIGPGPPDCQPAQISRRYSDFERLHRNLQRQFRGPMAAISFPRKRLRRNFTAETIARRSRAFEQFLGHLQA
VPELRHAPDLQDFFVLPFLRRRAQSLTCTGLYREALALWANAWQLQAQLGTPSGPDRPLLTLAGLAVCHQELEDPG
EARACCEKALQLLGDKSLHPLLAPFLEAHVRLSWRLGLDKRQSEARLQALQEAGLTPTPPPSLKELLIKEVLD

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FIGURE 5789

GTGGCCGCCGTCGCCCGGATCCCCTGAGCTGCCCCGCATCCCACGTGACCGCGCCGCCCCCAGCTCCACCGCTG
AGCCCGCTCGCCATGGCCCTCTTCGGGGCCCTCTTCCTAGCGCTGCTGGCAGGCGCACATGCAGAGTTCCCAGGC
TGCAAGATCCGCGTCACCTCCAAGGCGCTGGAGCTGGTGAAGCAGGAGGGGCTGCGCTTTCTGGAGCAAGAGCTG
GAGACTATCACCATTCCGGACCTGCGGGGCAAAGAAGGCCACTTCTACTACAACATCTCTGAGGTGAAGGTCACA
GAGCTGCAACTGACATCTTCCGAGCTCGATTTCAGCCACAGCAGGAGCTGATGCTTCAAATCACCAATGCCTCC
TTGGGGCTGCGCTTCCGGAGACAGCTGCTCTACTGGTTCTTCTATGATGGGGGCTACATCAACGCCTCAGCTGAG
GGTGTGTCCATCCGCACTGGTCTGGAGCTCTCCCGGGATCCCGCTGGACGGATGAAAGTGTCCAATGTCTCCTGC
CAGGCCCTCTGTCTCCAGAATGCACGCGGCCCTTCGGGGGAACCTTCAAGAAGGTGTATGATTTTCTCTCCACGTTT
ATCACCTCAGGGATGCGCTTCCTCCTCAACCAGCAGATCTGCCCTGTCTCTACCACGCAGGGACGGTCTGCTC
AACTCCCTCCTGGACACCGTGCCTGTGCGCAGTTCTGTGGACGAGCTTGTGGCATTGACTATTCCCTCATGAAG
GATCCTGTGGCTTCCACCAGCAACCTGGACATGGACTTCCGGGGGGCCTTCTTCCCCCTGACTGAGAGGAACTGG
AGCCTCCCCAACCAGGCGAGTGGAGCCCCAGCTGCAGGAGGAAGAGCGGATGGTGTATGTGGCCTTCTCTGAGTTC
TTCTTCGACTCTGCCATGGAGAGCTACTTCCGGGCGGGGGCCCTGCAGCTGTTGCTGGTGGGGACAAGGTGCCC
CACGACCTGGACATGCTGCTGAGGGCCACCTACTTTGGGAGCATTGTCCTGCTGAGCCCAGCAGTGATTGACTCC
CCATTGAAGCTGGAGCTGCGGGTCTGGCCCCACCGCGCTGCACCATCAAGCCCTCTGGCACCACCATCTCTGTC
ACTGCTAGCGTCACCATTGCCCTGGTCCCACCAGACCAGCCTGAGGTCCAGCTGTCCAGCATGACTATGGACGCC
CGTCTCAGCGCCAAGATGGCTCTCCGGGGGAAGGCCCTGCGCACGCAGCTGGACCTGCGCAGGTTCCGAATCTAT
TCCAACCATTCTGCACTGGAGTCGCTGGCTCTGATCCCATTACAGGCCCTCTGAAGACCATGCTGCAGATTGGG
GTGATGCCCATGCTCAATGAGCGGACCTGGCGTGGGGTGAGATCCCACTACCTGAGGGCATCAACTTTGTGCAT
GAGGTGGTGACGAACCATGCGGGATTCTCACCATCGGGGCTGATCTCCACTTTGCCAAAGGGCTGCGAGAGGTG
ATTGAGAAGAACCGGCCTGCTGATGTGAGGGCGTCCACTGCCCCCACACCGTCCACAGCAGCTGTCTAGAGCCCTC
AATCCCCAAGCTGGCAGCTGTCAATCAGGACCCCCAACCCCTCTCAGCCCCCTTTTTCCACATTATAGCCTGTA
GTGCCCCCTCTAACCCCCAGTGCCACAGAGAAGACGGGATTTGAAGCTGTACCCAATTTAATTCCATAATCAATC
TATCAATTACAGTCCGTCCACCACC

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FIGURE 5790

MALFGALFLALLAGAHAEFPGCKIRVTSKALELVKQEGRLRFLEQELETITITIPDLRGKEGHFYNNISEVKVTELQL
TSSELDQFQQEMLQITNASLGLRFRRLLYWFFYDGGYINASAEGVSIRTGLELSRDPAGRMKVSNNVSCQASV
SRMHAAFGGTFKKVYDFLSTFITSGMRFLNQQICPVLYHAGTVLLNSLLDTVPVRSSVDELVGIDYSLMKDPVA
STSNLDMDFRGAFFPLTERNWSLPNRAVEPQLQEEERMVYVAFSEFFFDSESSYFRAGALQLLLVGDKVPHDLD
MLLRATYFGSIVLLSPAVIDSPLKLELRVLAPPRCTIKPSGTTISVTASVTIALVPPDQPEVQLSSMTMDARLSA
KMALRGKALRTQLDLRRFRIYSNHSALSLALIPLOAPLKTMLQIGVMPMLNERTWRGVQIPLPEGINFVHEVVT
NHAGFLTIGADLHFAKGLREVIEKNRPADVRSTAPTSTA

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FIGURE 5791

AGACACCTCTGCCCTCACCATGAGCCTCTGGCAGCCCCTGGTCTCTGGTGCTCCTGGTGCTGGGCTGCTGCTTTGC
TGCCCCCAGACAGCGCCAGTCCACCCTTGTGCTCTTCCCTGGAGACCTGAGAACCAATCTCACCAGACAGGCAGCT
GGCAGAGGAATACCTGTACCGCTATGGTTACACTCGGGTGGCAGAGATGCGTGAGAGTGCAGAAATCTCTGGGGCC
TGCGCTGCTGCTTCTCCAGAAGCAACTGTCCCTGCCCAGACCGGTGAGCTGGATAGCGCCACGCTGAAGGCCAT
GCGAACCCACGGTGCGGGGTCCCAGACCTGGGCAGATTCCAAACCTTTGAGGGCGACCTCAAGTGGCACCACCA
CAACATCACCTATTGGATCCAAACTACTCGGAAGACTTGCCGCGGGCGGTGATTGACGACGCTTTGCCGCGC
CTTCGCACTGTGGAGCGCGGTGACGCCGCTACCTTCACTCGCGTGTACAGCCGGGACGCAGACATCGTCATCCA
GTTTGGTGTCGCGGAGCACGGAGACGGGTATCCCTTCGACGGGAAGGACGGGCTCCTGGCACACGCTTTCTCTCC
TGGCCCCGGCATTGAGGGAGACGCCATTTTCGACGATGACGAGTTGTGGTCCCTGGGCAAGGGCGTCGTGGTTCC
AACTCGGTTTGGAAACGCAGATGGCGCGGCCTGCCACTTCCCCTTCATCTTCGAGGGCCGCTCCTACTCTGCCTG
CACCACCGACGGTCGCTCCGACGGCTTGCCCTGGTGCAGTACCACGGCCAACTACGACACCGACGACCGGTTTGG
CTTCTGCCCCAGCGAGAGACTCTACACCCGGGACGGCAATGCTGATGGGAAACCTGCCAGTTTCCATTCTCTT
CCAAGGCCAATCTACTCCGCTGCACCACGGACGGTCGCTCCGACGGCTACCGCTGGTGCGCCACCACCGCCAA
CTACGACCGGGACAAGCTCTTCGGCTTCTGCCCCACCGAGCTGACTCGACGGTGATGGGGGGCAACTCGGCGGG
GGAGCTGTGCGTCTTCCCCTTCACTTTCTGGGTAAGGAGTACTCGACCTGTACCAGCGAGGGCCGCGGAGATGG
GCGCTCTGGTGCGCTACCACCTCGAACTTTGACAGCGACAAGAAGTGGGGCTTCTGCCCCGACCAAGGATACAG
TTTGTTCCTCGTGGCGGCGCATGAGTTCGGCCACGCGCTGGGCTTAGATCATTCTCAGTGCCGGAGGCGCTCAT
GTACCCTATGTACCGCTTCACTGAGGGGCCCCCTTGCATAAGGACGACGTGAATGGCATCCGGCACCTCTATGG
TCCTCGCCCTGAACCTGAGCCACGGCCTCCAACCACCACACCGCAGCCACAGGCTCCCCCGACGGTCTGCCC
CACCAGACCCCCCTGTCCACCCCTCAGAGCGCCCCACAGCTGGCCCCACAGGTCCCCCTCAGCTGGCCCCAC
AGGTCCCCCTACTGCTGGCCCTTCTACGGCCACTACTGTGCCTTTGAGTCCGGTGGACGATGCCTGCAACGTGAA
CATCTTCGACGCCATCGCGGAGATTGGGAACCAGCTGTATTTGTTCAAGGATGGGAAGTACTGGCGATTCTCTGA
GGGAGGGGGAGCCGGCCGCAGGGCCCCCTTCTTATCGCCGACAAGTGGCCCGCGCTGCCCCGCAAGCTGGACTC
GGTCTTTGAGGAGCCGCTCTCCAAGAAGCTTTTCTTCTCTGCGGCCAGGTGTGGGTGTACACAGGCGCGTC
GGTGCTGGGCCCCGAGGCGTCTGGACAAGCTGGGCCTGGGAGCCGACGTGGCCAGGTGACCGGGGCCCTCCGGAG
TGGCAGGGGGAAGATGCTGCTGTTTCAGCGGGCGGCGCCTCTGGAGGTTTCGACGTGAAGGCGCAGATGGTGGATCC
CCGGAGCGCCAGCGAGGTGGACCGGATGTTCCCCGGGGTGCCCTTTGGACACGCACGACGTCTTCCAGTACCGAGA
GAAAGCCTATTTCTGCCAGGACCGCTTCTACTGGCGCGTGAGTTCCCGGAGTGAGTTGAACCAGGTGGACCAAGT
GGGCTACGTGACCTATGACATCCTGCAGTGCCCTGAGGACTAGGGCTCCCGTCCCTGCTTTGCAGTGCCATGTAAA
TCCCCACTGGGACCAACCTGGGGAAGGAGCCAGTTTGCCGGATACAACTGGTATTCTGTTCTGGAGGAAAGGG
AGGAGTGGAGGTGGGCTGGGCCCTCTCTTCTCACCTTTGTTTTTTGTTGGAGTGTTCATAAACTTGGATTCT
CTAACCTTT

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FIGURE 5792

MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRQLAEYLYRYGYTRVAEMRGESKSLGPALLLLQ
KQLSLPETGELDSATLKAMRTPRCGVDPDLGRFQTFEGDLKWHHHNITYWIQNYSEDLPRAVIDDAFARAFALWSA
VTPLTFTRVYSRDADIVIQFGVAEHGDGYFPDGDGLLAHAFPPGPGIQGDAHFDDELWSLGKGVVVPTRFGNA
DGAACHFPFIFEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTRDGNADGKPCQFPFIFQGQSYS
ACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCAT
TSNFDSDKKWGFCDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTEGPPLHKDDVNGIRHLYGPRPEPE
PRPPTTTTPQPTAPPTVCPTGPPTVHPSERPTAGPTGPPSAGPTGPPTAGPSTATTVPLSPVDDACNVNIFDAIA
EIGNQLYLFDGKYWRFSEGRGSRPQGPFLIADKWPALPRKLDVFEELSKKLFFFSGRQVWVYT GASVLGPRR
LDKLGLGADVAQVTGALRSGRGKMLLFSGRRLWRFDVKAQMVDPRSASEVDRMFPGVPLDTHDVVFQYREKAYFCQ
DRFYWRVSSRSELNQVDQVGYVTYDILQCPED

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FIGURE 5793

ACTTCCGGTGGGGAGATTCCGGCCTGGAGCTCCCAGGGCCGAGCAGACCTTGGGACCTGTGAGCGCTGCATCCAA
TTAACCATGGGAAGGGTCAGCACCAGCCACCAGCCCCCTTAGGTGAGGACTCTGCCTGGGGCTCTGCTGATGGTTC
CGAATCATGGAGCTGCAGAGAGCTCCTCCAGCCTGGAGACGTTCTTGGTGAAAGCTGTGGTCTAACTCCACCGGC
TCTTCCTGCACATTGTATTCAAGAGGGGTGCCTGCCCCGCTGACTCAGGAGCTCCGGTGCTGCAGCCGCCACGA
ATGGGGAGGTGGGCCCTCGATGTGGCCTTTTTGTGGAAGGCGGTGTTGACCCTGGGGCTGGTGCTTCTCTACTAC
TGCTTCTCCATCGGCATCACCTTCTACAACAAGTGGCTGACAAAGAGCTTCCATTTCCCCCTCTTCATGACGATG
CTGCACCTGGCCGTGATCTTCTCTCTCCGCCCTGTCCAGGGCGCTGGTTCAGTGCTCCAGCCACAGGGCCCCGT
GTGGTGCTGAGCTGGGCCGACTACCTCAGAAGAGTGGCTCCCACAGCTCTGGCGACGGCGCTTGACGTGGGCTTG
TCCAACCTGGAGCTTCCTGTATGTCACCGTCTCGCTGTACACAATGACCAAATCCTCAGCTGTCTCTTCATCTTG
ATCTTCTCTCTGATCTTCAAGCTGGAGGAGCTGCGCGCGGCACTGGTCTCTGGTGGTCTCTCTCATCGCCGGGGGT
CTCTTCATGTTACCTACAAGTCCACACAGTTCAACGTGGAGGGCTTCGCCTTGGTGCTGGGGGCCCTCGTTCATC
GGTGGCATTGCTGGACCTCAGCCAGATGCTCCTGCAGAAGGCTGAACTCGGCCTCCAGAATCCCATCGACACC
ATGTTCCACCTGCAGCCACTCATGTTCTGGGGCTCTTCCCTCTCTTTGCTGTATTTGAAGGTCTCCATTTGTCC
ACATCTGAGAAAATCTTCCGTTTCCAGGACACAGGGCTGCTCCTGCGGGTACTTGGGAGCCTCTTCCCTTGGCGGG
ATTCTCGCCTTTGGTTTGGGCTTCTCTGAGTTCTCTCTGGTCTCCAGAACCTCCAGCCTCACTCTCTCCATTGCC
GGCATTTTTAAGGAAGTCTGCACTTTGCTGTTGGCAGCTCATCTGCTGGGCGATCAGATCAGCCTCCTGAACCTGG
CTGGGCTTCGCCCTCTGCCTCTCGGGAATATCCCTCCACGTTGCCCTCAAAGCCCTGCATTCCAGAGGTGATGGT
GGCCCCAAGGCCTTGAAGGGGCTGGGCTCCAGCCCCGACCTGGAGCTGCTGCTCCGGAGCAGCCAGCGGGAGGAA
GGTGACAATGAGGAGGAGGAGTACTTTGTGGCCCAGGGGCAGCAGTGACCAGCCAGGGCAAATGGCTTAGAAGCA
GGCCACTCCCCAGCCTGCTGCCAGCACTCACTGTGCTCAAGCCGCCAGGGCTCATCATGGTAGCTGGGAGCTGTG
GACGGGAGTCACCAGGTGGTGGGGCCAAGCCAGGGACTCATGACTTTTGCCCTCCCTTCAGAGCCTGGTCACAC
AAGGGGCGAGCACCAGGCCAGCCTGGGACTGGCCAGAGCTGGGCCCAAGCTGCGCTGGAATCGCAGCAGGAGAGG
GGAGTGGGCTGGTTCTTCCCACCACTTCCCAGGCTCTGACAGCCGAGACTCATTTCCAAGGCACAGCAGCTTTCT
AAAGGGACTGAGTTTGGACTGGGTTTTGGACCTCCAGGGGCTGGAGCTTCATCACCTGGGCAGTGTCTTTCTCA
GAGAGCAGGTTTCTTTATAGTTTGGAAATAAATGGTTACGGTCCACTGGCCGCCTTGTTGCTGGAGACGTGG
GGGCAGGGAGGGGACAGTGTGGGCCTGGCCTCTCCTTTCCCTTCCCTGCTGGAGCCTTCTTCAAATGTCTGGTC
TTAAGCCAGGCCTCCTTCATTTTCTCGCTCCTGTAGAACACCAGTCCCTCCCCAGTGGGGCCCCACTGCACCT
GCTGGCAGGAAATAAATGAATGTTTACTGAGTACTGCA

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FIGURE 5794

GCGCGCTCTGCTCGGCTGCAGGCTCAGGAAGCGGCGCGGCGGCACGTGCTGGGCCAGAGCCCCGCGCCCTGCGTC
CAGCCGCCGGGTGTGTGCGCCCGGTAGCCAGCGTCGCGCCTCGGCGCCCCACGCGCCACGCAGCGGCGCGG
GGACCCGGGCGGGGCGAGGGAGGGCCCGGCCAGGAGGAGAAGGGCCGGTCTCCCGGCGCAGGCAGCAGC
CGCGGCAGCCCAGGAGGCGGAGGCAGCGGCAACGGCAGAGACAGCAACGTGCCCCCGCAGTCAGCCCGGCCTCG
TCGGACCCGCACCGGCCCGCCCGCCCGCCGACCGCGTCGGGGCGCCCTCTCCACTGCGCGCGGTACAAGGAAA
TGGTAGAACTAGTGATCTCAGCCAGCCTCACTGTAAACAGCGATTGTCTGGATAAACTGAAGTTTAACCGTGCTG
ACGCTGCTGTGTGGACTCTGAGTGACAGACAAGGCATCACAAATCGGCCCCCTGAGAGTGTCCAGCTCTTCT
CCAGATCTTGCCACGTGTCTCCCCCGCCAGCCTTCCACAGCCATGGCAGCCTACGGCCAGACGCAGTACAGTG
CGGGGATCCAGCAGGCTACCCCTATACAGCTTACCCACCTCCAGCACAAAGCCTATGGAATCCCTTCCTACAGCA
TCAAGACAGAAGACAGCTTGAACCATTCCTTGGCCAGAGTGGATTCTCAGCTATGGCTCCAGCTTCAGCACCT
CACCCACTGGACAGAGCCCATAACCTACCAGATGCACGGCACAACAGGGTTCTATCAAGGAGGAAATGGACTGG
GCAACGCAGCCGGTTTCGGGAGTGTGCACCAGGACTATCCTTCTACCCCGGCTTCCCCCAGAGCCAGTACCCCC
AGTATTACGGCTCATCTTACAACCTCCCTACGTCCCGGCCAGCAGCATCTGCCCTTCGCCCCCTCTCCACGTCCA
CCTACGTCTCCAGGAGGCATCTCACAACGTCCCCAACCAGAGTTCCGAGTCACTTGCTGGTGAATACAACACAC
ACAATGGACCTTCCACACCAGCGAAAGAGGGAGACACAGACAGGCCGACCGGGCCCTCCGACGGGAAGCTCCGAG
GCCGGTCTAAGAGGAGCAGTGACCCGTCCCCGGCAGGGGACAATGAGATTGAGCGTGTGTTCTGTGTTGGGACTTGG
ATGAGACAATAATTATTTTCACTCCTTACTCACGGGGACATTTGCATCCAGATACGGGAAGGACACCACGACGT
CCGTGCGCATTGGCCTTATGATGGAAGAGATGATCTTCAACCTTGCAGATACACATCTGTTCTTCAATGACCTGG
AGGATTGTGACCAGATCCACGTTGATGACGTCTCATCAGATGACAATGGCCAAGATTTAAGCACATACAACCTTCT
CCGCTGACGGCTTCCACAGTTCGGCCCCAGGAGCCAACCTGTGCCTGGGCTCTGGCGTGCACGGCGCGGTGGACT
GGATGAGGAAGCTGGCCTTCCGCTACCGGCGGGTGAAGGAGATGTACAATACCTACAAGAACAACGTTGGTGGGT
TGATAGGCACTCCCAAAAGGGAGACCTGGCTACAGCTCCGAGCTGAGCTGGAAGCTCTCACAGACCTCTGGCTGA
CCCCTCCCTGAAGGCACTAAACCTCATCAACTCCCGGCCCAACTGTGTCAATGTGCTGGTCAACCACTCAAC
TAATTCCTGCCCTGGCCAAAGTCCTGCTATATGGCTGGGGTCTGTGTTTCTATTGAGAACATCTACAGTGCAA
CCAAGACAGGAAGGAGAGCTGCTTCGAGAGGATAATGCAGAGATTCCGGCAGAAAAGCTGTCTACGTGGTGATCG
GTGATGGTGTGGAAGAGGAGCAAGGAGCGAAAAAGCACAAATGCCTTTCTGGCGGATATCCTGCCACGCAGACC
TGGAGGCACTGAGGCACGCCCTGGAGCTGGAGTATTTATAGCAGGATCAGCAGCATCTCCACCTGCCATCTCACC
CTCAGACCCCTCGCCTTCCCCACCTCCCCACCGAGAACTCCAGAGACCCAGATGTTGGACACCAGGAAGGGGCC
CCACAGCCGAGACGACGTGTCCAGTGACCATCTCAGAAGCCGTCCATCAGTCCAAATGGGGGTTCTGAGAAGGAA
AGTACCCAACATTGGCTTCGGAGTATTTGACTTTGGGGAAAAGGGCTGGCTCGGAGTCTAGACTCTTCTGTAAGA
CTCACAGAACAAAAGCAAGGAATTGCTGATTTGGGGGGTGCCTGGTGATGAGGAGGGGATGGGTTTGTCTTGCT
TCTTTTTAATTTATGGACTAGTCTCATTACTCCGGAATTATGCTCTTGACCTGTGTGGCTGGGTTTCTTAGTCG
TTGGTTTGGTTTGGTTTTTTGAACTGGTATGTGGGGTGGTTCACAGTTCTAATGTAAGCACTCTATTCTCAAAGT
TGTGCTTTGTGGGGACAATCATTCTTTGAACATTAGAGAGGAAGGCAGTTCAAGCTGTTGAAAAGACTATTGCTT
ATTTTTGTTTTTAAAGACCTACTTGACGTCATGTGGACAGTGACAGTGCCTTACGCTACATCTTGTCTTCTAGGA
AGAGGGGGATGCTGGGAAGGAATGGGTGCTTTGTGATGGATAAAAGGCATTAAATAAAACCACGTTTACATTTTG

6273/6881
FIGURE 5795A

CGGCGCCGCGCGGCCGCGCTAGAATGGAGGCGCCAGCGGCAGCGAGCCCGGCGGCGACGGGGCCGGGGACTGCG
CCCACCCGGACCCCGGGCCCCCTGGCGCCGCGGCGCCAGCTCCGGCCCCGGCCCGTGC GCGGCCGCCCGGGAGT
CCGAGCGCCAGCTGCGCCTCCGCCCTCTGCGTCTCAACGAGATCTTGGGCACCGAGAGGGACTACGTGGGCACCT
TGCGCTTCTTGAGTCGGCATTCTGTCATCGCATCCGGCAGAACGTGGCCGACTCAGTGGAGAAGGGCCTCACGG
AGGAGAATGTCAAGGTCTGTCTCGAACATCGAAGACATCCTGGAAGTTCATAAGGATTTCTTGCCGCTTG
AGTATTGTTTACACCCGGAGCCGCGAGTCTCAGCATGAACCTGGGAATGTTTTCTTAAATTC AAGGACAAGTTCT
GCGTGTACGAGGAGTATTGCAGCAACCATGAGAAAGCCCTGAGGCTGCTGGTGGAGCTGAACAAGATCCCTACCG
TGCGCGCCTTCTTTTGGAGCTGCATGCTTCTGGGAGGCCGGAAGACCACGGACATCCCTTTGGAAGGCTACCTGT
TGTCTCCGATCCAGAGGATCTGCAAGTACCCGCTCCTCCTTAAGGAGCTGGCCAAGAGGACTCCCGGCAAGCACC
CAGACCACCCCGCGGTCCAGAGTGCCTTGCAGGCCATGAAGACCGTTTGTCTCAACATCAATGAGACCAAGCGGC
AGATGGAGAAGCTGGAAGCCCTGGAGCAGCTGCAGTCCACATCGAAGGCTGGGAGGGTTCCAACCTCACAGACA
TCTGCACCTCAGCTCCTCTGCAAGGGACTTTGTTAAAGATCTCTGCGGGCAACATCCAGGAAAGGGCCTTCTTCC
TCTTCGACAACCTTCTCGTCTACTGCAAGCGGAAATCCAGGGTACC GGGAGCAAGAAGTCCACCAAGAGGACCA
AATCCATCAACGGCTCCCTCTACATCTTCAGGGGTGCAATCAACACTGAAGTCATGGAGGTGGAGAATGTGGAAG
ATGGGACAGCGGATTACCATAGCAACGGCTATACCGTACCAACGGCTGGAAGATCCACAACACGGCCAAGAATA
AGTGGTTTGTCTGCATGGCCAAGACGGCAGAGGAGAAGCAGAAGTGGCTGGATGCCATCATCCGCGAGCGGGAGC
AGCGCGAGAGCCTGAAGCTGGGCATGGAGCGTGATGCCTACGTATGATTGCGGAGAAGGGGGAGAAGCTGTACC
ACATGATGATGAACAAGAAGGTGAACCTCATCAAGGACCGCCGGAGAAAGCTGAGCACTGTCCCCAAGTGCTTTC
TTGGCAATGAGTTCGTTGCCTGGCTCCTAGAAATTGGTGAAATCAGCAAGACGGAAGAAGGAGTCAACTTGGGCC
AAGCCCTGTTGGAGAATGGCATCATCCACCATGTTTCCGACAAGCACCAGTTCAAGAATGAGCAGGTGATGTATC
GCTTCCGCTACGACGATGGCACCTACAAGGCCCGAAGTGAGCTGGAGGACATCATGTCCAAGGGTGTGAGGCTTT
ACTGCCGTCTTCACAGCCTCTACACCCCGGTGATCAAAGACCGTGATTACCACCTGAAGACCTACAAGTCAGTGC
TTCCCGGGAGCAAGCTGGTGGACTGGCTGCTGGCTCAGGGAGACTGCCAGACTCGGGAGGAGGCAGTGGCGCTCG
GCGTGGGTCTGTGCAACAATGGCTTCATGCACCACGTGCTGGAGAAGAGCGAGTTCAGGGATGAGTCCAGTACT
TCCGCTTTCATGCTGACGAGGAGATGGAGGGGACCAGCAGCAAGAACAACAGCTTCGCAACGACTTCAAGCTGG
TGGAGAACATTCTGGCCAAGCGCCTGCTGATCCTGCCCCAGGAGGAGGACTATGGCTTTGACATCGAGGAGAAGA
ACAAGGCTGTGGTGGTGAAGTCCGTCCAGAGGGGCTCGCTGGCTGAGGTGGCTGGCCTGCAGGTGGGGAGGAAGA
TCTACTCCATCAATGAGGACCTGGTGTTCCTGCGGCCGTTTTTCAGAGGTGGAGTCCATCCTCAACCAGTCTTCT
GCTCCCGCCGCCCTCTGCGCCTCCTGGTGGCCACGAAGGCCAAAGAGATCATCAAAATCCCCGACCAGCCGGACA
CACTGTGCTTCCAGATTCTGTGGAGCTGCCCCACCGTACGTCTATGCTGTGGGGAGAGGCTCTGAGGCCATGGCTG
CAGGGCTCTGTGCTGGTCACTGCTGATTCTGAAGGTCAATGGCAGCAACGTGATGAACGATGGTGCCCTGAGGTCC
TGGAGCACTTCCAGGCATTCCGGAGTCGGCGCGAAGAGGCCCTGGGCCTGTACCAGTGGATCTACCACACCCATG
AGGATGCCCAGGAAGCACGAGCCAGTCAGGAGGCCTCCACTGAGGACCCAGTGGCGAGCAGGCCCAGGAGGAAG
ACCAGGCTGATTACAGCCTTCCCAGTGTGTCCCTGGGTCCCCGGCTGAGCCTGTGTGAGGACAGCCCCATGGTCA
CCCTGACTGTGGACAACGTGCACCTGGAACACGGCGTGGTGTATGAGTATGTGAGCACGGCAGGCGTCAGGTGCC
ATGTGCTGGAGAAGATCGTGGAGCCCCGCGGCTGCTTCGGCCTCACCGCCAAGATCCTCGAGGCCTTTGCTGCCA
ATGACAGCGTCTTCGTGGAGAATGCAGGCGGCTCATGGCCCTGAGCAGCGCCATCGTGACCATGCCCCACTTTG
AGTTCCGCAACATCTGTGACACCAAGCTGGAGAGCATTGGCCAGAGGATTGCCTGTACCAGGAGTTTGCAGCCC
AACTGAAGAGCAGGGTCAGCCACCCCTTCAAACAAGCCCCCTGGAGCCCCACCCGCTGTGTGGCCTGGACTTCT
GCCCCACCAATTGCCACATCAACCTCATGGAAGTGTCTACCCCAAGACCACCCCTCAGTGGGCGAGGTCTTCA
GCATCCGCTTTGGACGCAAACCTCCCTCATCGGCCTTGACCCGGAGCAAGGCCACCTGAACCCCATGTCTGTACA
CCCAGCACTGCATCACCACCATGGCTGCTCCCTCCTGGAAGTGCTTGCTGCTGCAGAGGGTGATCCCCAAGGCC
AGGGTCTCCATGATGGCAGCTTCGGGCCAGCCAGTGGGACCCTTGGTCAGGAAGACCGGGGCCCTCAGCTTCTTAC
TCAAGCAGGAGGACCGTGAGATCCAGGATGCCTACCTGCAGCTCTTACCAAGCTGGATGTGGCCCTGAAGGAGA
TGAAGCAATATGTACCCAGATCAACAGGCTGCTGTCCACCATCACAGAGCCACCTCGGGTGGGTCTGCGACG
CATCCTTGGCTGAGGAGGCCTCCTCCCTGCCCCCTGGTCACTGAAGAGAGCGAGATGGACAGGAGTGACCATGGGG
GCATCAAGAAGGTGTGCTTCAAGGTGGCCGAGGAGGACCAGGAGGACTCAGGCCACGACACCATGAGTTATCGCG
ACTCCTACAGCGAGTGTAACAGCAATCGAGACTCGGTCTGTCTACACCAGCGTGAGAAGTAACAGCTCCTACT

6274/6881
FIGURE 5795B

TGGGCAGCGACGAGATGGGGTCTGGAGATGAGCTGCCCTGTGACATGCGGATCCCATCTGACAAGCAGGACAAGC
TTCATGGCTGCCTGGAGCACCTCTTTAACCAGGTGGACTCCATCAATGCTCTCCTCAAGGGGCCAGTCATGAGCC
GGGCTTTTGAAGAGACCAAGCATTTCCTATGAACCACAGCTTACAAGAGTTTAAACAGAAAGAAGAGTGTACAA
TCCGTGGCCGGAGCCTGATCCAGATTAGCATCCAGGAGGACCCCTGGAACCTCCCCAACTCCATCAAGACCCTGG
TGGACAACATTAGAGATATGTGGAAGATGGGAAGAACCAGCTGCTCCTGGCCTTGCTGAAGTGCACAGACACGG
AGCTGCAGCTGCGCAGAGACGCGATCTTCTGCCAGGCCCTGGTGGCCGCCGTGTGCACCTTCTCCAAGCAGCTGC
TGGCGGCCCTGGGCTACCGCTACAACAACAATGGCGAGTACGAGGAGAGCAGCCGCGACGCCAGCCGCAAGTGGC
TGGAGCAGGTGGCGGCCACGGGCGTCTGCTGCACTGCCAGTCCCTGCTCTCGCCAGCCACAGTGAAGGAGGAAC
GGACCATGCTGGAGGACATCTGGGTGACGCTGTGAGAGCTGGACAATGTACCTTCTCCTTTAAGCAGCTGGACG
AGAAGTATGTGGCCAACACCAACGTCTTCTACCACATTGAGGGCAGCCGGCAGGCGCTGAAGGTCATCTTCTACC
TCGACAGCTACCACTTCTCCAAGCTGCCCTCCCGCTGGAGGGTGGGGCCAGCCTGAGGCTGCACACAGCGCTGT
TCACGAAAGTGTGAGAGAAGCTGGAGGGGCTGCCTTCTCAGGCAGCCAGGCCGCGGAGGATTTCAGCAGGACA
TCAACGCGCAGTCCCTGGAGAAAGTTTACAGTATTACCGCAAACCTCAGGGCATTTTACCTGGAGCGGTCTAACC
TGCCACCGGATGCCAGCACCGCGGTAAAGATAGACCAGCTGATCCGCCCCATCAATGCCCTGGATGAGCTCT
GCCGCTCATGAAGTCTTTGTCCACCCAAAGCCTGGTGTCTGCTGGGAGTGTGGGCGCCGGCCTCATCCCCATCT
CCTCGGAGCTCTGCTACCGCTGGGGGCTGCCAGATGGTCAATGTGTGGCACAGGCATGCAGAGGAGCACCTGA
GCGTGTCCCTGGAGCAGGCGGCCATCTTGGCACGGAGCCACGGGTGTGTGCCAAGTGCATCATGCAGGCCACGG
ACATCATGCGGAAGCAGGGCCCAAGGGTGGAGATTCTGGCCAAAACCTGCGAGTCAAGGACCAGATGCCCCAGG
GTGCTCCGCGCCTCTACCGCTCTGCCAGCCGCGGTGGATGGGGACCTCTGAACACCCAAATGCCCCACGCTGG
GCCGCGCCTCTGGAGCTGGGATTGGGAGGACACAGCAGGCAGCGCTGGCCACCCTCGCTGTGATGACGAGCTG
GCTGATTGGCCCTGGGCCGGCCCATCTTTCACACGCCTGCCAGAAGCTGGAGGGGTGCTGGAGACCCATAGAGCT
GATGGGAGCAGCTGGTGCCTGGCCTTCGGCTCTGCGTCCCCAGAACCCAAGGGAACGTTCATGGAGGCCACATGG
GGCCACCCGGCTCCCTCGGGATGGCTCCGCTGCACTTTTGAAACCCCGGTTTCCTTCAACGTCCACATTCCAGG
TGACCACACGTGTCTCTCTCTCTCATCTTAGCTTCCAGGTTACCCTAACCTGTACTAACCTGCTTGGTGGAC
TTGGAAAAGACTTGGCTCTGTGCGGAAAGGAGAGACGGGGCCTCCATCACGCCTGTTACCAGAGGATCCCCGAGA
GCCACACCAGCTCTGGACATCACCGCCCCCTGGAACCTGGGGCCACCAGCCCTGGGCACGAGATTTGCTCTGACTTT
ATTTATATGGCATGAAATCTCTGGTTTATTTTGGGATTTTTTGTGTGTGGTGTGTCAAAGTTTGTTTTTTCTAA
AGTTGTGTGATTATATATTTGACATTTTACATTTCAAAGAAAGGTATGTTGTCTAACAGGGGACCAACAGAAGGT
AGTATTGACAACTGTTCTCTACTAAAAAAGAGCACAAAAGAAAACTAAATTATTGAAAAATTAAA
AAATGTCATTGTTTCTGTTTGTAAATATTAGGGTTGTAAGGTGTCGTTTTGAGGTATCGACTGTGATTCTTCC
CCCACCCTCCATTCTCCAGCGGTTGGCCGGTGTAGAACTCGCTCTCTTTGAGTGACTGGCTACAAGGGCCTGAG
AGGTGGCCAGCCAGGGTTGGAGCTGGAGGGGATGGAGCCCCACCTGAGGTGCCGTGTACACGGGTTAGAGGGTC
ACTGGGAAACACCGGGCGGTGGCTTCTGTGATTTATTTCTTGATGGTAACTTCTCAGAGCAGGGCGATTGGGAC
ATCACCAGCCAGAGCACAGGAAGCCACCCTGCCTGCTGGGGAGGAGGGACCCACACAAGCCCCCTCGGCAGTTTG
TCCCCCAGCTTCGGTATGCCCTTCAGGGAAAGGTCACAGCTGGGGAGGAAGCGGGGGGACGCCTGTCAACCCCTGG
CAGGTGGTGAGTTGAGGTGGGGGCTCCCTGCTGCCCCAGGCTGGGAGCTTGAAGCCCTCCCGGCATCTGGCAT
CCGAGCCTCCCGCCCTCCAGGGTGCCTTCCCTCTCTTGCCGAGCATACAGAGGGCAGGCAGTGGCCTTGTCA
CTGTATCTTGCATCAGAGACAAAGGAGGACCCGCTTAGCCCTGCTGCGGAAATGGGGGAGGGCCAGGGCCAG
CGCATTTGTGCACTGGTTTACTTTAAAATGTACAGATTCTTCTCGTTAAATTCTTGATAGATTTTTTATTATTATT
AAAAGTCAGTTTATAATAC

6275/6881
FIGURE 5796A

GCATTCTGGCCCCGCCCCCTGCAGCGGGCCGCTCGCTCATGCGCTCTGGCCTCAGGCTCGCTGTCGCGCCATTT
TGCCGGGGTTTGAATGTGAGGCGGAGCGGCGGCAGGAGCGGGTAGTGCCAGCTACGGTCCGCGGCTGGGGTTCCC
TCCTCCGTTTCTGTATCCCCACGAGATCCTATAGCAATGGAAGTCTGAGGATGCAAACTGCAAACTAACAGAA
TATTTAAAGAAAACACTTGATCCTGATCCTGCCATCCGACGTCCAGCTGAGAAATTTCTTGAATCTGTTGAAGGA
AATCAGAATTATCCACTGTTGCTTTTGACATTACTGGAGAAGTCCCAGGATAATGTTATCAAAGTATGTGCTTCA
GTAACATTCAAAAACATATATTAAGGAAGTGGAGAATTGTTGAAGATGAACCAAAACAAATTTGTGAAGCCGAT
CGAGTGGCCATTAAAGCCAACATAGTGCACCTTGATGCTTAGCAGCCAGAGCAAATTCAGAAGCAGTTAAGTGAT
GCAATTAGCATTATTGGCAGAGAAGATTTTCCACAGAAATGGCCTGACTTGCTGACAGAAATGGTGAATCGCTTT
CAGAGTGGAGATTTCCATGTTATTAATGGAGTCTCCGTACAGCACATTCAATATTTAAAGATACCGTCATGAA
TTTAAGTCAAACGAGTTATGGACTGAAATTAAGCTTGTTCTGGATGCCTTTGCTTTGCCTTTGACTAATCTTTTT
AAGGCCACTATTGAACTCTGCAGTACCCATGCAAATGATGCCTCTGCCCTGAGGATTCTGTTTTCTTCCCTGATC
CTGATCTCAAAATTTGTTCTATAGTTTAACTTTTCAAGATCTCCCTGAATTTTTTGAAGATAATATGGAACTTGG
ATGAATAATTTTCACTCTCTTAACATTGGATAATAAGCTTTTACAACTGATGATGAAGAGGAAGCCGGCTTA
TTGGAGCTCTTAAATCCCAGATTTGTGATAATGCCGCACTCTATGCACAAAAGTACGATGAAGAATTCCAGCGA
TACCTGCCTCGTTTTGTTACAGCCATCTGGAATTTACTAGTTACAACGGGTCAAGAGGTTAAATATGATTTGTTG
GTAAGTAATGCAATTCATTTCTGGCTTCAGTTTGTGAGAGACCTCATTATAAGAATCTATTTGAGGACCAGAAC
ACGCTGACAAGTATCTGTGAAAAGGTTATTGTGCCTAACATGGAATTTAGAGCTGCTGATGAAGAAGCATTTGAA
GATAATTCTGAGGAGTACATAAGGAGAGATTTGGAAGGATCTGATATTGATACTAGACGCAGGGCTGCTTGTGAT
CTGGTACGAGGATTATGCAAGTTTTTTGAGGGACCTGTGACAGGAATCTTCTCTGTTATGTTAATCCATGCTG
CAGGAATACGCAAAAATCCATCTGTCAACTGGAACACAAAGATGCAGCCATCTACCTAGTGACATCTTTGGCA
TCAAAAGCCCAACACAGAAGCATGGAATTACACAAGCAAATGAACTTGTAACCTAACTGAGTTCTTTGTGAAT
CACATCTCCCTGATTTAAATCAGCTAATGTGAATGAATTTCTGTCTTAAAGCTGACGGTATCAAATATATT
ATGATTTTTAGAAATCAAGTGCCAAAAGAACATCTTTTAGTCTCGATTCTCTCTGATTAATCATCTTCAAGCT
GAAAGTATTGTTGTTTCACTTACGCAGCTCATGCTCTTGAACGGCTCTTTACTATGCGAGGGCCTAACAAATGCC
ACTCTCTTACAGCTGCAGAAATCGCACCGTTTTGTTGAGATTCTGCTAACAAACCTTTTCAAAGCTCTCACACTT
CCTGGCTCTTCAGAAAATGAATATATTATGAAAGCTATCATGAGAAGTTTTTCTCTCTACAAGAAGCCATAATC
CCCTACATCCCTACTCTCATCACTCAGCTTACACAGAAGCTATTAGCTGTTAGTAAGAACCAAGCAAACCTCAC
TTTAATCACTACATGTTTGAAGCAATATGTTTATCCATAAGAATAACTTGCAAAGCTAACCTGCTGCTGTTGTA
AATTTTGAGGAGGCTTTGTTTTGTTGTTTACTGAAATCTTACAAAATGATGTGCAAGAATTTATTCCATACGTC
TTTCAAGTGATGCTTTGCTTCTGGAACACACAAAATGACATCCCGTCTTCTATATGGCCTTATTTCCCTCAT
CTCCTTCAGCCAGTGCTTTGGGAAAGAACAGGAAATATTCTGCTCTAGTGAGGCTTCTTCAAGCATTCTTAGAA
CGCGGTTCAAACACAATAGCAAGTGCTGCAGCTGACAAAATCTCTGGGTTACTAGGTGCTTTTCAAGAGCTGATT
GCATCCAAAGCAAATGACCACCAAGGTTTTTATCTTCTAAACAGTATAATAGAGCACATGCCTCCTGAATCAGTT
GACCAATATAGGAAAACAAATCTTCTCTGCTATTCCAGAGACTTCAGAATTCAAAACAACCAAGTTTATCAAG
AGTTTTTTAGTCTTTATTAATTTGTATTGCATAAAATATGGGGCACTAGCACTACAAGAAATATTTGATGGTATA
CAACCAAAAATGTTTGAATGGTTTTGGAAAAATATTATTCCTGAAATTCAGAAGGTATCTGGAAATGTAGAG
AAAAAGATCTGTGCGGTTGGCATAACCAATTACTAACAGAATGTCCCCCAATGATGGACACTGAGTATACCAAA
CTGTGGACTCCATTATTACAGTCTTTGATTGGTCTTTTTGAGTTACCCGAAGATGATACCAATTCCTGATGAGGAA
CATTTTATTGACATAGAAGATACACCAGGATATCAGACTGCCTTCTCACAGTTGGCATTGCTGAGGAAAAAGAG
CATGATCCTGTAGGTCAAATGGTGAATAACCCCAAATTCACCTGGCACAGTCACTTACAAAGTTGTCTACCGCC
TGTCCAGGAAGGGTTCCATCAATGGTGAGCACCAGCCTGAATGCAGAAGCGCTCCAGTATCTCCAAGGGTACCTT
CAGGCAGCCAGTGTGACACTGCTTTAACTGCATTTTTCTAATGGGCTAAACCCAGATGGTTTCTAGGAAATCA
CAGGCTTCTGAGCACAGCTGCATTAAACAAAGGAAGTTCTCCTTTTGAACCTGTGCAGAAATTCATCTTGTA
GGATATTAAATGTTGCTTTAACCTGAACCTTGAGCAAATAGTTGGTTTGTGTGATCATACAGTTATGTGGGTGG
CTTCTAGTTTGCACTTCAAGGGACAAGTATTAATAGTTTCAAGTATGGCGTTGGTTTGTGTTGAGCGTTTGCAC
GGTTTGGATAATCTTAAATTTTACGGGACACTGTGGAGACTTTCTGTTACTAAATCCTTTTGTGTTTGAAGCTGTT
GCTATTTGTATTTCTTGTCTTTATATTTTTTGTCTGTTTATTTACGCTTTTATTGGAAATGTGAATAAGTAA
AGAATTACTTGTGTTACTTGCCAAGCAGTGCACATTTTATAGTTTCAAATCTGTAATCAGCAATAAAAAATCTTAA

6276/6881
FIGURE 5796B

AATATGTACCT

6277/6881
FIGURE 5797

MELSDANLQTLTEYLKKTLDPPAIRRPAEKFLESVEGNQNYPLLLLTLEKSQDNVIKVCASVTFKNYIKRNWR
IVEDEPNKICEADRVAIKANIVHMLSSPEQIQKQLSDAISIIGREDFPQKWPDLITEMVNRFSQSGDFHVINGVL
RTAHSLEFKRYRHEFKSNELWTEIKLVLDALPLTNLFKATIELCSTHANDASALRILFSSLILISKLFYSLNFQ
DLPEFFEDNMETWMNNFHTLLTLDNKLQTDDEEEAGLLELLKSQICDNAALYAQKYDEEFQRYLPRFVTAIWNL
LVTTGQEVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTSICEKVIIVPNMEFRAADEEAFEDNSEEYIRRDLE
GSDIDTRRRRAACDLVRGLCKFFEGPVTGIFSGYVNSMLQEYAKNPSVNWKHKDAAIYLVTSLASKAQTQKHGITO
ANELVNLTEFFVNHILPDLKSANVNEFPVLKADGIKYIMIFRNQVPKEHLLVSIPLLINHLQAESIVVHTYAHA
LERLFTMRGPNNTLFTAAEIAPFVEILLTNLFKALTLPGSSENEYIMKAIMRSFSLLQEAIIPYIPTLITQLTQ
KLLAVSKNPSKPHFNHYMFEAICLSIRITCKANPAAVVNFEALFLVFTEILQNDVQEFIPYVFQVMSLLETHK
NDIPSSYMALEFPVLLQPVWERTGNIPALVRLQAFLEGRSNTIASAAADKIPGLLGVFQKLIASKANDHQGFYL
LNSIIEHMPPEVDQYRKQIFILLFQRLQNSKTTKFIKSFLVFINLYCIKYGALALQEIFDGIQPKMFGMVLEKI
IPEIQKVSNGVEKKICAVGITKLLTECPPMMDTEYTKLWTPLLQSLIGLFELPEDDTIPDEEHFIDIEDTPGYQ
TAFSQLAFAGKKEHDPVGMVNNPKIHLAQSLHKLSTACPGRVPSMVSTSLNAEALQYLQGYLQAASVTLL

6278/6881
FIGURE 5798

AAGTGACGCATGGTACTTGCACAAAGACGACGAGGAGGCTGCGAAAAGTTAAGGGCCGGACCGCAGGCTGTGCTC
GCTTCCGGAAGTGGCTTCTGCGACAACATGCTTGCAGGACCTCGGCTTAATCGGAACCATAGGCGAGGATGACGAG
GTGCCGGTGGAGCCCCGAGTCTGACTCCGGGGACGAGGAAGAGGAGGGGCCATTGTGCTGGGCAGACGACAAAA
GCTTTGGGGAAGAACCGCAGTGCTGATTTCAACCCCTGATTTCTGTTTTCACTGAGAAGGAGGGGACGTACGATGGC
AGCTGGGCCCTGGCTGATGTCATGAGCCAACTCAAGAAGAAGAGGGCAGCCACTACATTAGATGAGAAGATTGAG
AAAGTTCGAAAGAAAAGGAAAAACAGAGGATAAAGAAGCCAAGTCTGGGAAGTTGGAAAAGGAGAAAGAAGCAAAG
GAAGGCTCTGAACCAAAGGAGCAGGAAGACCTTCAAGAGAATGATGAGGAAGGCTCAGAAGATGAAGCCTCGGAG
ACTGACTACTCATCAGCTGATGAGAACATCCTCACCAAAGCAGATACACTCAAAGTAAAGGATCGGAAGAAGAAG
AAGAAGAAAGGACAGGAAGCAGGAGGATTTTTTGAAGATGCATCTCAGTACGATGAAAACCTCTCGTTCCAGGAC
ATGAACCTTTCCCGCCCTCTTCTGAAGGCCATTACAGCCATGGGCTTCAAGCAGCCCACCCCGATCCAGAAGGCG
TGCATACCTGTGGGCTCTATTGGGGAAGGACATCTGTGCCTGTGCAGCCACTGGGACAGGTAAACTGCCGCCTTT
GCCCTGCCTGTTTTGGAGCGTCTGATTTATAAACCCCGCCAGGCTCCAGTCAACCCGCTGCTGGTGCTAGTGCCC
ACCCGAGAGCTGGGCATCCAGGTGCACTCTGTACCAGACAGCTGGCCAGTTCTGCAACATCACCACTGCCTG
GCTGTGGGCGGCTTGGATGTGAAGTCTCAGGAAGCAGCTCTTCGGGCAGCGCCTGACATCCTCATCGCCACCCCA
GGCCGGCTCATCGATCACCTCCACAACCTGCCCTTCCTTCCACCTGAGCAGCATCGAGGTGCTCATCCTGGACGAG
GCTGACAGGATGCTGGATGAGTACTTTGAGGAGCAGATGAAGGAGATCATCCGAATGTGTTCCCACCACCGCCAG
ACCATGCTCTTCTCGGCCACCATGACAGACGAGGTGAAAGATCTGGCTTCTGTCTCCTTGAAGAATCCTGTCCGG
ATATTTGTGAACAGCAACACAGATGTGGCTCCCTTCCTGCGGCAGGAGTTCATCCGGATCCGGCCTAATCGTGAA
GGAGACCGGGAAGCCATCGTGGCAGCTTTGTTGACGAGGACCTTCACTGACCATGTGATGCTGTTACGCAAAACC
AAGAAGCAGGCCCCACCGCATGCACATCCTCCTGGGGCTCATGGGGCTGCAGGTGGGTGAGCTCCATGGCAACTTG
TCACAGACGCAGCGGCTGGAGGCCCTCCGGCGTTTTTAAGGATGAACAGATTGACATCCTCGTGGCCACTGATGTG
GCAGCCCCTGGACTTGACATTGAGGGGGTCAAACCGTAATCAACTTCACAATGCCTAATACCATCAAACATTAT
GTCCACCGGGTGGGGCGAACAGCACGTGCTGGCAGGGCTGGGCGCTCAGTCTCTCTGGTGGGAGAAGATGAGCGG
AAGATGCTGAAGGAGATTGTAAAAGCTGCCAAGGCCCCCTGTGAAGGCCAGGATACTTCCCCAAGATGTCATCCTC
AAATTCGGGACAAGATTGAGAAAAATGGAGAAAGATGTGTATGCAGTTCTGCAGCTAGAGGCGGAGGAAAAAGAG
ATGCAGCAGTCAGAAGCCCAGATCAATACAGCAAAGCGGCTCCTGGAGAAGGGGAAGGAGGCAGTGGTCCAAGAG
CCCGAGAGGAGCTGGTTCCAGACCAAAGAAGAGAGGAAGAAGGAGAAAATTGCCAAAGCTCTGCAGGAATTTGAC
TTGGCCTTAAGAGGAAAGAAGAAAAGGAAGAAGTTTATGAAGGATGCCAAAAAAGGGGGAGATGACAGCAGAG
GAAAGGTCTCAGTTTGAAATCCTCAAGGCGCAGATGTTTGCTGAACGGCTAGCGAAGAGGAATCGCAGAGCCAAG
CGGGCCCCGAGCAATGCCCGAGGAGGAGCCAGTGAGAGGTCCTGCCAAGAAGCAAAGCAGGGGAAGAAATCTGTA
TTTGATGAAGAACTACCAACACAAGCAAGAAGGCCCTGAAACAGTATCGAGCTAGCCCTTCCTTTGAAGAAAGG
AAACAGTTGGGCTTGCCCCACCAGAGACGAGGAGGAAACTTTAAATCTAAATCCAGATACAAGAGGAGGAAGTAG

CTGTCTGGCCTGAAGAAATTCATGGGGGCAGCCCTTAAATCCCTTCCCTGTGGGAAGTCATCCTGGCTGGTCTG
TCTTTTCTCCATTTGTTTAAAAAACAACAAACAAACACTTTGGTGTGGTGGTATGGTACGTAGCTA
TTTTCTAAGCATGTCTGTCAATCTCCCTTCTTGCTGATTAGCTTTCATATGACTATATTAAATGGAAGTATTT
TGGGAAAAGAGAAACCAAAAAAAAAAAAAAAAAA

6279/6881
FIGURE 5799

MVLAQRRRGCEKLRAGPQAVLASGSGFCDNMLADLGLIGTIGEDDEVPEPESDSGDEEEEGPIVLGRRQKALG
KNRSADFNPDFVFTEKEGTYDGSWALADVMSQLKKKRAATTLDEKIEKVRKKRKTEDKEAKSGKLEKEKEAKEGS
EPKEQEDLQENDEEGSEDEASETDYSSADENILTKADTLKVKDRKKKKKKKGQEAGGFFEDASQYDENLSFQDMNL
SRPLLKAITAMGFKQPTPIQKACIPVGLLGKDICACAATGTGKTAAFALPVLERLIYKPRQAPVTRVLVLVPTRE
LGIQVHSVTRQLAQFCNITTCLAVGGGLDVKSQEAALRAAPDILIATPGRLIDHLHNCPSFHLSSIEVLILDEADR
MLDEYFEEQMKEIIRMCSHHRQTMLFSATMTDEVKDLASVSLKNPVRI FVNSNTDVAPFLRQEFIRIRPNREGDR
EAIVAALLTRTFTDHVMLFTQTKKQAHRMHILLGLMGLQVGELHGNLSQTQRLEALRRFKDEQIDILVATDVAAR
GLDIEGVKTVINFTMPNTIKHYVHRVGRTARAGRAGRSVSLVGEDERKMLKEIVKAAKAPVKARILPQDVILKFR
DKIEKMEKD VYAVLQLEAEEKEMQQSEAQINTAKRLLEKGKEAVVQEPERSWFQTKERKKKEIAKALQEFDLAL
RGKKKRKKFMKDAKKKGEMTAEERSQFEILKAQMFAERLAKRNRRAKRARAMPEEPPVRGPAKKQKQGKKS VFDE
ELTNTSKKALKQYRASPSFEERKQLGLPHQRRGGNFKSKSRYKRRK

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FIGURE 5800

GAAAATGATCTCCAAAAGATTTCTCAGCAAGGCAGATTTACTTCTGCAGAATGGTGCTGCTTGCACTCCTGGTCA
CAGTGAGAGCACCCCGAACAAAGGAGGTGAAGTGGTTTTTATCCCTAACACAGCTAGTTCTGCTTCTGTGTTCT
ATCCCCATTGGCTAGAGTCCAATCTAACTAGTCCTGATTGGCTATTTTAAACAGGAGGGGTGTGGGTTACAGCA
GTGGGAAGAGCAGTTGCCACGAGCGAGGGAGACTTTTCCAGATAAGGAACAAATGCGGGTTACAGGTTGGGATTG
GTGGGAGAAATGTTTACAGAAATGGGTAATTAGGAGTGGGAAGGTATGAGGAAGTTGACCTTAAGAACAAAGAACA
AGGAAGTTAACTTTGAAGAGAAACCCATCATACCTAACAGTCTTGTAAGAAAGGATGACAAAGTGATTGAACAT
TGGGTGGAGCTAATTTTCTTGGCCAATTCAGTTAGTAAGATAAGGAGCTCCAAATCATATTTAAGTTGGGAGTC
AATTGATTTTACTTAATTCTTGTGAGGTTCAAGTTATAAGATTTCATCATACTACTACCATGAGCCATCCTCAGCTC
CTTGTTACATGGGCCTGTAAACATGGCAGCTTTGTCTATAAGCAAACCCAGGAGAGAAAGACATAGCAGAGATGG
ATGTTTGAAGTCTATACCTTCCACCCCTTTAAAGAGAAAGTAACACCACTCCTTTTCTGTGTCCCTTGGGGACA
CTACCTCCATGTCTGGTTCACATGGCTGGACTTTACAGCAGATAAGCATACTGTGGCCTGAGACCATGATTGTATG
CTTTCCTTCTGCTGACCTTTACAATCCCTCAATAAATTGAGCTAACACAGGGAAGCTTTTTTACCAAATAACTGT
GTTGCATCATCCTCCAGTTTGCCTGGTGTCTTAATCAATGGAAGGGGAATAAGCAAAGTGAATTTTCTTACACC
TTTTGAGTATAGTGTTTTTTGGCATCATAGATGTGGCTCCTCATAATTCTCCAACCTTTTATATTAATAAACCACAAA
CCTCAAAAATTGTAGTTCATGTCAGTCAGTGATGACTCATCTTAGAAGTATTTTGTGTTTTGGATGTGTGAATGTG
CATAGTTCTTAAAGTCCAACATTCATGTAATAAGACATCTTGCATATAACAATGACCTTACGTCTAAGATGTTA
AATAGATCCTAAGCCTGGTATAACTTTATTCAAGTATCCTTATTTGCCCTAAAATGTCTTTAATACACATTACT
TGGGTTATTTCTTGAATGAACATACAGGTATCCCAATTTCTGTTTTTAAGAGAATGGGGTCTTGCTCTGTCACCC
AGGCTGGAGTGCAGTGGTGCAGTCATGGCTTACTGCATCCATGATCCTCCTGCCTCAGCCTCCCAAGTAGATGGG
ACTGAAAGCACACACTGCCATCCCTGGCTAATGTTTTCATATTTGTAGAGTTGCAGCCTTGCTACGTGACCCAG
GCTGGAGTGTAGTAGCTATTACAGGCATGATTGCTTGAACTCATGGCTTCAAGGGAACTCCACCCCTCAATA
TCCTCAGTAGCTGCAACTACAGCCATACCCCCCACTGCTCAGCTTCTCATCCTTTAAAAGATTTTTACTGGTAGT
GTCCTCATTCTGGGTTTTTGTCTTCTGTGTTTACTGTGACATGAAGTCATTTTTAGATGAAGGTTAAACATTTTG
CCAACGCAGGTACAATATGGGATTCAATAAAAGTACAGAATTAAAGTTGTCTTATTAGAGATTGGGAAGTTTCCC
AGCTCCGTTTATCGGTACTTGGCCGTACCGATAAAGGGGATGGACTTGGAGTGACCAGGTCTTAGTCACATGTAT
TTTCATACCCTAAACAAGAAGCGGTATAGACCAGAATGGAGCACTGATTGTAATCCACCTTCTTTCTTAGAACT
GGCGATGGAATATGAGAGGAGCCCTCTGGAAAGAAAAGGACAGACCCTGTGCTTTTCATGAAAGTGAAGATCTGGC
TGAACCAGTTCCACAAGGTTACTGTATACATAGCCTGAGTTTAAAGGCTGTGCCCACTTCAAGAATGTCATTGT
TAGACTTTGAAATTTCTAACTGCCTACCTGCATAAAGAAAATAAAATCTTTTAAATC

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FIGURE 5801

MISKRFLSKADLLQLNGAACTPGHSESTPNKGGEVVFIPNTASSCFVLSPLARVQSKLVLIGYFKQEGCGLQW
EEQLPRARETFPDKEQMRVTGWDWWEKCLQNG

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FIGURE 5802

GGCACGGCCTAGCGAGTGGTTCTTCTGCGCTACTGCTGCGCGAATCGGCGACCCAGTGCCTCGACCACTATGCC
GCGCTCTTTCTCGTCAGGAAGCCCTCCGACCCCAATCGGAAGCCTAACTACAGCGAGCTGCAGGACTCTAATCC
AGAGTTTACCTTCCAGCAGCCCTACGACCAGGCCCACCTGCTGGCAGCCATCCCACCTCCGGAGATCCTCAACCC
CACCGCCTCGCTGCCAATGCTCATCTGGGACTCTGTCCTGGCGCCCCAAGCCCAGCCAATTGCCTGGGCCCTCCCT
TCGGCTCCAGGAGAGTCCCAGGGTGGCAGAGCTGACCTCCCTGTCTAGATGAGGACAGTGGGAAAGGCTCCCAGCC
CCCCAGCCCACCCTCACCGGCTCCTTCGTCTTCTCCTCTACTTCAGTCTCTTCCTTGGAGGCCGAGGCCTATGC
TGCCTTCCCAGGCTTGGGCCAAGTGCCCAAGCAGCTGGCCCAGCTCTCTGAGGCCAAGGATCTCCAGGCTCGAAA
GGCCTTCAACTGCAAATACTGCAACAAGGAATACCTCAGCCTGGGTGCCCTCAAGATGCACATCCGAAGCCACAC
GCTGCCCTGCGTCTGCGGAACCTGCGGGAAGGCCTTCTCTAGGCCCTGGCTGCTACAAGGCCATGTCCGGACCCA
CACTGGCGAGAAGCCCTTCTCCTGTCCCCACTGCAGCCGTGCCTTCGCTGACCGCTCCAACCTGCGGGCCACCT
CCAGACCCACTCAGATGTCAAGAAGTACCAGTGCCAGGCGTGTGCTCGGACCTTCTCCCGAATGTCCCTGCTCCA
CAAGCACCAAGAGTCCGGCTGCTCAGGATGTCCCCGCTGACCCTCGAGGCTCCCTCTTCTCTCCATACTGCCC
CTGCCTGACAGCCTTCCCCAGCTCCAGCAGGAAGGACCCACATCCTTCTCACTGCCATGGAATTCCCTCCTGAG
TGCCCCACTTCTGGCCACATCAGCCCCACAGGACTTTGATGAAGACCATTTTCTGGTTCTGTGTCTCTGCCTGG
GCTCTGGAAGAGGCCTTCCCATGGCCATTTCTGTGGAGGGAGGGCAGCTGGCCCCCAGCCCTGGGGGATTCTGA
GCTGGCCTGTCTGCGTGGGTTTTTGTATCCAGAGCTGTTTGGATACAGCTGCTTTGAGCTACAGGACAAAGGCTG
ACAGACTCACTGGGAAGCTCCCACCCCACTCAGGGGACCCCACTCCCTCACACACACCCCCCACAAGGAACCC
TCAGGCCACCCTCCACGAGGTGTGACTAACTATGCAATAATCCACCCCCAGGTGCAGCCCCAGGGCCTGCGGAGG
CGGTGGCAGACTAGAGTCTGAGATGCCCCGAGCCAGGCAGCTATTTAGCCTCCTGTTTGGTGGGGTGGCACCT
GTTTCCCGGGCAATTTAACAATGTCTGAAAAGGGACTGTGAGTAATGGCTGTCACTTGTGCGGGGCCCAAGTGGG
GTGCTCTGGTCTGACCGATGTGTCTCCAGAACTATTCTGGGGGCCCGACAGGTGGGCCTGGGAGGAAGATGTTT
ACATTTTTTAAGGTACACTGGTATTTATATTTCAAACATTTTGTATCAAGGAAACGTTTTGTATAGTTATATGTA
CAGTTTATTGATATTCAATAAAGCAGTTAATTTATATATTA

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FIGURE 5803

MPRSFLVRKPSDPNRKPNYSELQDSNPEFTFQQPYDQAHLLAAIPPEILNPTASLPMLIWDSVLAPQAQPIAWA
SLRLQESPRVAELTSLSDSDSGKGSQPPSPSPSPAPSSFSSTSVSSLEAEAYAAFPGLGQVPKQLAQLSEAKDLQA
RKAFNCKYCNKEYLSLGALKMHIRSHTLPCVCGTCGKAFSRPWLLQGHVRTHTGKPFSCPHCSRAFAADRSLRA
HLQTHSDVKKYQCQACARTFSRMSLLHKHQESGCSGCPR

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FIGURE 5804

TTCACACGGGCACGACTTCATCGAGACCAACGGGGACAACCTGCCTGGTGACACTGCTGCCGCTGCTAAACATGGCC
TACAAGTTCCGCACCCACAGCCCTGAAGCCCTGGAGCAGCTATACCCCTGGGAGTGCTTCGTCTTCTGCCTGATC
ATCTTCGGCACCTTCACCAACCAGATCCACAAGTGGTCGCACACGTACTTTGGGCTGCCACGCTGGGTACCCCTC
CTGCAGGACTGGCATGTATCCTGCCACGTAAACACCATCGCATCCACCACGTCTCACCCACAGAGACCTACTTC
TGCATCACACAGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAAGGAGTA
GGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAAGATGGACAGGGATGATAATT
GGGCCTCCAAGAACAAATTTATGAAAACCGAATATACAGCCTTAAATAGAATGTGGACCTAAATACCCAGAAGCA
CCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCCAAGA
GCCATATCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCTGCAAGAGCTTCGGCGCCTAATG
ATGTCTAAAGAAAAATATGAAACTCCCTCAGCCGCCCGAAGGACAGTGTTACAGCAATTAATCAAAAAAGAAAAACC
ACAGGCCCTTCCCCTTCCCCCAATTTCGATTTAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGATACGT
CTTGTAGACCTCAAAGTACCGGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGATACT
AATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAACCACTGTCCACGTA
GTTGAACTTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGCACATCTAACTCAACT
GTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCTTTACCCTC
CCGCTCCCACCTTCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTTAGAGTAGATGTGAAGGTTTCAGGT
CGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTCGCCTGCACCCCTGGTTCCCTTTAAGTCTTAAGTGAT
GCCCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGGCCGAAGCATAGATTGTAACCCCT
CCACTCCCCCTCTGAGATTGGCTTCGGTGAGGAATTCAGGGCTTTCCCATATCTTCTCTCCCCCACCTTTATCG
AGGGGTGCTGCTTTTTCTCCCTCCTCCTCAAGTTCCTTTTTTGACCGTCAACACCCAACACCTTCCATGACACTT
CCTTGCTTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAACCATA
CTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCTCAGCCCTGCCACCCTCTGCTGTCTCATCAGCTGA
TGCAATTGTTTTTAGCTCAGGTTTTGATAAGGTGAAAAGATAGTCACCAGGGTTACTCAGACCTGCCAGCTCTCG
GAGTCCTTGGTGGTTGAACTTGGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAATTGTT
TTACTTTCTGTAACTGCTTTTGCTTTTAAAAATTGAAGAAGTTTTAAACAGGGCTTTTCAATTTGGTCTATCCTTGC
AATCCATTGGGGTCTAGTTTGGAATCTGACAACTGGAACAAAAAGAACCTTGAATCCGGTGCATGCCTTGGTTTT
GGTGTGCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCCGAAAT
TGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTTCCACTTGCTGTTTCAAGGACCACTAAATGCTGAAATGTGG
ATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTTTTAAATTTAGTATTTGTGTAAA
ACCACCTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTTCCATTAATCTTTTTCTGGGGGGAAAA
CCTTAGTTCTAAGGATTTAACATCCTGTAAAGTGAAGTTTAAACATAACAGTATTCCATAAGCAGCCTTTTTATTGT
CAGACCATTGCCTGATTTTAAATATAATAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5805

MAYKFRTHSPEALEQLYPWECFVFCLIIFGTFTNQIHKWSHTYFGLPRWVTLLQDWHVILPRKHHRIHHVSPHET
YFCITTGVKVPNRNFRLLLEELEEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTIYENRIYSLKIECGPKYP
EAPPFVRFVTKINMNGVNSSNGVVDPRASVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPPEGQCYSN

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FIGURE 5806

ATGCCAGGAGAGGTTCAAGCGTCTTACCTGAAGTCACAAAGCAAACCTGAGTGATGAAGGAAGACTTGAACCTAGA
AAATTTCACTGCAAAGACAATTTATGAAAACCGAATATACAGCCTTAAAAATAGAATGTGGACCTAAATACCCAGA
AGCACCCCCCTTTGTAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCC
AAGAGCCATATCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCCTGCAAGAGCTTCGGCGCCT
AATGATGTCTAAAGAAAATATGAAACTCCCTCAGCCGCCCCGAAGGACAGTGTTACAGCAATTAATCAAAAAGAAA
AACCACAGGCCCTTCCCCCTTCCCCCAATTCGATTTAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGAT
ACGTCTTGTAGACCTCAAAGTACCGGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGA
TACTAATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAAACCACTGTCCA
CGTAGTTGAACTTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGGCACATCTAACTC
AACTGTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCCTTAC
CCTCCCGCCTCCACCCCTCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTTAGAGTAGATGTGAAGGCTTC
AGGTGCGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTCGCCTGCACCCCTGGTTTCTTTAAGTCTTAAG
TGATGCCCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGGCCGAAGCATAGATTGTAAC
CCCTCCACTCCCCCTCTGAGATTGGCCTTCGGTGAGGAATTCAGGGCTTTCCCCATATCTTCTCTCCCCACCTTT
ATCGAGGGGTGCTGCTTTTTCTCCCTCCTCCTCAAGTTCTTTTTTGACCGTCACCACCCAACACCTTCCATGAC
ACTTCCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAAC
CATACTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCCTCAGCCCTGCCACCCCTCTGCTGTCATCAG
CTGATGCATTGTTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAATAGTCACCAGGGTTACTCAGACCTGCCAGCT
CTCGGAGTCCTTGGTGGTTGAACTTGGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAAT
TGTTTTACTTTCTGTAACTGCTTTTGCTTTTAAAAATTGAAGAAGTTTTAAACAGGGCTTTCATTTGGTCATCC
TTGCAATCCATTGGGGGTCTAGTTTGGAATCTGACAACTGGAACAAAAGAACCTTGAACCCGGTGCATGCCTTG
GTTTTGGTGCTGCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCC
GAAATTGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTTCCACTTGCTGTTCAGGACCACTAAATGCTGAAA
TGTGGATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTAATTTAGTATTTGT
GTAAAACCACCTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTTCCATTAATCTTTTCTGGGGG
GAAAACCTTAGTTCTAAGGATTTAACATCCTGTAAGTGAAGTTTAAACATAACAGTATTCCATAAGCAGCCTTTTT
ATTGTCAGACCATTGCCTGATTTTAATATAATAAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5807

MKEDLNLENFTAKTIYENRIYSLKIECGPKYPEAPPFVRFTKINMNGVNSSNGVVDPR AISVLAKWQNSYSIKV
VLQELRRLMMSKENMKLPQPEGQCYSN

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FIGURE 5808

ATGCAACGCCTGGTGGCCTGGGACCCAGCATGTCTCCCCCTGCCGCCGCCGCCGCTGCCTTTAAATCCATGGAA
GTGGCCAACCTTCTACTACGAGGCGGACTGCTTGGCTGCTGCGTACGGCGGCAAGGCGGCCCCCGCGCGCCCCC
GCGGCCAGACCCGGGCGCGCCCCCGCCGGCGAGCTGGGCAGCATCGGCGACCACGAGCGCGCCATCGACTTC
AGCCCGTACCTGGAGCCGCTGGGCGCGCCGAGGCCCGGCGCCCGCCACGGCCACGGACACCTTCGAGGCGGCT
CCGCCCCGCGCCCCCGCGCCCGCCTCCTCCGGGCAGCACCACGACTTCCTCTCCGACCTCTTCTCCGACGAC
TACGGGGGCAAGAACTGCAAGAAGCCGGCCGAGTACGGCTACGTGAGCCTGGGGCGCCTGGGGGCTGCCAAGGGC
GCGCTGCACCCCGGCTGCTTCGCGCCCCCTGCACCCACCGCCCCCGCCGCCGCCGCCGCCGCCGAGCTCAAGGCG
GAGCCGGGCTTCGAGCCCGCGGACTGCAAGCGGAAGGAGGAGGCCGGGGCGCCGGGCGGCGGCGCAGGCATGGCG
GCGGGCTTCCCGTACGCGCTGCGCGCTTACCTCGGCTACCAGGCGGTGCCGAGCGGCAGCAGCGGGAGCCTCTCC
ACGTCCTCCTCGTCCAGCCCGCCCGGCACGCCGAGCCCCGCTGACGCCAAGGCCCCCCCCGACCGCCTGCTACGCG
GGGGCCGGGCGGCGCCCTCGCAGGTCAAGAGCAAGGCCAAGAAGACCGTGGACAAGCACAGCGACGAGTACAAG
ATCCGGCGCGAGCGCAACAACATCGCCGTGCGCAAGAGCCGCGACAAGGCCAAGATGCGCAACCTGGAGACGCAG
CACAAGGTCCTGGAGCTCACGGCCGAGAACGAGCGGCTGCAGAAGAAGGTGGAGCAGCTGTCGCGCGAGCTCAGC
ACCCTGCGGAACTTGTTCAAGCAGCTGCCCGAGCCCCCTGCTCGCCTCCTCCGGCCACTGCTAG

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FIGURE 5809

GTGATGCGTAGTTCCGGCTGCCGGTTGACATGAAGAAGCAGCAGCGGCTAGGGCGGCGGTAGCTGCAGGGGTCCG
GGATTGCAGCGGGCCTCGGGGCTAAGAGCGCGACGCGGCTAGAGCGGCAGACGGCGCAGTGGGCCGAGAAGGAG
GCGCAGCAGCCGCCCTGGCCCGTCATGGAGATGGAAAAGGAGTTTCGAGCAGATCGACAAGTCCGGGAGCTGGGCG
GCCATTTACCAGGATATCCGACATGAAGCCAGTGACTTCCCATGTAGAGTGGCCAAGCTTCCTAAGAACAAAAAC
CGAAATAGGTACAGAGACGTCACTCCCTTTGACCATAGTCCGATTAAACTACATCAAGAAGATAATGACTATATC
AACGCTAGTTTGATAAAAAATGGAAGAAGCCCAAAGGAGTTACATTCTTACCCAGGGCCCTTTGCCTAACACATGC
GGTCACTTTTGGGAGATGGTGTGGGAGCAGAAAAGCAGGGGTGTCTCATGCTCAACAGAGTGATGGAGAAAGGT
TCGTTAAATGCGCACAACTAGGCCACAAAAAGAGAAAAGAGATGATCTTTGAAGACACAAATTTGAAATTA
ACATTGATCTCTGAAGATATCAAGTCATATTATACAGTGCAGACAGCTAGAATTGGAAAACCTTACAACCCAAGAA
ACTCGAGAGATCTTACATTTCCACTATACCACATGGCCTGACTTTGGAGTCCCTGAATCACCAGCCTCATTCCTG
AACTTTCTTTTCAAAGTCCGAGAGTCAGGGTCACTCAGCCCGGAGCACGGGCCCGTTGTGGTGCAGTGCAGTGCA
GGCATCGGCAGGTCTGGAACCTTCTGTCTGGCTGATACCTGCCTCTTGCTGATGGACAAGAGGAAAGACCCTTCT
TCCGTTGATATCAAGAAAGTGCTGTTAGAAATGAGGAAGTTTCGGATGGGGCTGATCCAGACAGCCGACCAGCTG
CGCTTCTCCTACCTGGCTGTGATCGAAGGTGCCAAATTCATCATGGGGGACTCTTCCGTGCAGGATCAGTGGAAAG
GAGCTTTCCACAGGAGCCTGGAGCCCCCACCAGCAGCATATCCCCCACCTCCCCGGCCACCCAAACGAATCCTG
GAGCCACACAATGGGAAATGCAGGGAGTTCTTCCCAAATCACCAGTGGGTGAAGGAAGAGACCCAGGAGGATAAA
GACTGCCCCATCAAGGAAGAAAAAGGAAGCCCTTAAATGCCGCACCCTACGGCATCGAAAGCATGAGTCAAGAC
ACTGAAGTTAGAAGTCGGGTCTGTGGGGGAAGTCTTCGAGGTGCCAGGCTGCCTCCCCAGCCAAAGGGGAGCCG
TCACTGCCCGAGAAGGACGAGGACCATGCACTGAGTTACTGGAAGCCCTTCTGTTCAACAGCAACACATAGCCTGACCCTCCTCCACTC
GTCTCAGCGCCGGCGCTTACCTCTGCTACAGGTTCTGTTCACAGCAACACATAGCCTGACCCTCCTCCACTC
CACCTCCACCCACTGTCCGCTCTGCCCCGAGAGCCCACGCCCCGACTAGCAGGCATGCCGCGGTAGGTAAGGGCC
GCCGGACCGCTAGAGAGCCGGGCCCCGGACGGACGTTGGTTCTGCACTAAAACCCATCTTCCCCGGATGTGTGT
CTCACCCCTCATCCTTTTACTTTTTGCCCCCTTCCACTTTGAGTACCAAATCCACAAGCCATTTTTTGGAGAGAGT
GAAAGAGAGTACCATGCTGGCGGCGCAGAGGGAAGGGGCTACACCCGTCTTGGGGCTCGCCCCACCCAGGGCTC
CCTCCTGGAGCATCCAGGCGGGCGGCACGCCAACAGCCCCCCCCCTGAATCTGCAGGGAGCAACTCTCCACTCC
ATATTTATTTAAACAATTTTTTCCCCAAAGGCATCCATAGTGCAGTACGATTTTCTTGAACCAATAATGTATTAA
AATTTTTTGATGTCAGCCTTGATCAAGGGCTTTATCAAAAAGTACAATAATAATCCTCAGGTAGTACTGGGAA
TGGAAGGCTTTGCCATGGGCCTGCTGCGTCAGACCAGTACTGGGAAGGAGGACGGTTGTAAGCAGTTGTTATTTA
GTGATATTGTGGGTAACGTGAGAAGATAGAACAATGCTATAATATAATGAACACGTGGGTATTTAATAAGAAA
CATGATGTGAGATTACTTTGTCCCGCTTATTCTCCTCCTGTTATCTGCTAGATCTAGTTCTCAATCACTGCTCC
CCCGTGTGATTAGAAATGCATGTAAGGTCTTCTTGTGTCCTGATGAAAAATATGTGCTTGAATGAGAACTTTG
ATCTCTGCTTACTAATGTGCCCCATGTCCAAGTCCAACCTGCCTGTGCATGACCTGATCATTACATGGCTGTGGT
TCCTAAGCCTGTTGCTGAAGTCATTGTGCTCAGCAATAGGGTGCAGTTTCCAGGAATAGGCATTTGCCTAATT
CCTGGCATGACACTCTAGTGACTTCTTGGTGAGGCCAGCCTGTCTGGTACAGCAGGGTCTTGCTGTAACCTCAG
ACATTCCAAGGGTATGGGAAGCCATATTACACCTCACGCTCTGGACATGATTTAGGGGAAGCAGGGACACCCCC
GCCCCCACCTTTGGGATCAGCCTCCGCCATTCCAAGTCAACACTCTTCTTGAGCAGACCGTGATTTGGAAGAGA
GGCACCTGCTGGAACACACTTCTTGAAACAGCCTGGGTGACGGTCTTTAGGCAGCCTGCCGCCGTCTCTGTC
CCGGTTACCTTGCCGAGAGAGGCGCGTCTGCCCCACCCTCAAACCCTGTGGGGCCTGATGGTGCTCAGACTCT
TCCTGCAAAGGGAAGTGAAGACCTCCACATTAAGTGGCTTTTAAACATGAAAAACACGGCAGCTGTAGTCCCCGA
GCTACTCTCTTGCCAGCATTTTACATTTTGCCTTTCTCGTGGTAGAAGCCAGTACAGAGAAATCTGTGGTGGG
AACATTCGAGGTGTCAACCTGCAGAGCTATGGTGAGGTGTGGATAAGGCTTAGGTGCCAGGCTGTAAGCATTCTG
AGCTGGGCTTGTGTTTTTAAAGTCCTGTATATGTATGTAGTAGTTTGGGTGTGTATATATAGTAGCATTTCAAAA
TGGACGTACTGGTTTAAACCTCCTATCCTTGGAGAGCAGCTGGCTCTCCACCTTGTTACACATTATGTTAGAGAGG
TAGCGAGCTGCTCTGCTATATGCCTTAAGCCAATATTTACTCATCAGGTCATTATTTTTTACAATGGCCATGGAA
TAAACCATTTTTTACAAA

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FIGURE 5810

MEMEKEFEQIDKSGSWAAIYQDIRHEASDFPCRVAKLPKKNRNRNRYRDVSPFDHSRIKLHQEDNDYINASLIKME
EAQRSYILTQGPLPNTTCGHFWEMVWEQKSRGVVMLNRVMEKGSCLKAQYWPQKEEKEMIFEDTNLKLTLISEDIK
SYTTRQLELENLTQETREILHFHYTTWPDFGVPEPASFLNLFKVRRESGSLSPEHGPVVVHCSAGIGRSGTF
CLADTCLLLMDKRKDPSSVDIKKVLLMRKFRMGLIQTADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSHEDLE
PPPEHIPPFRPPKRILEPHNGKCREFFPNHQWVKEETQEDKDCPIKEEKGSPLNAAPYGIESMSQDTEVRSRVV
GGSLRGAQAASPAKGEPSLPEKDEDHLSYWKPFVLNMCVATVLTAGAYLCYRFLFNSNT

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FIGURE 5811

ATGGCCTCCTTGGAAGTCAGTCGTAGTCCTCGCAGGTCTCGGCGGGAGCTGGAAGTGCGCAGTCCACGACAGAAC
AAATATTCGGTGCTTTTACCTACCTACAACGAGCGCGAGAACCCTGCCGCTCATCGTGTGGCTGCTGGTGAAAAGC
TTCTCCGAGAGTGGAATCAACTATGAAATTATAATCATAGATGATGGAAGCCCAGATGGAACAAGGGATGTTGCT
GAACAGTTGGAGAAGATCTATGGGTCAGACAGAATTCTTCTAAGACCACGAGAGAAAAAGTTGGGACTAGGAACT
GCATATATTCATGGAATGAAACATGCCACAGGAACTACATCATTATTATGGATGCTGATCTCTCACACCATCCA
AAATTTATTCCTGAATTTATTAGGAAGCAAAAGGAGGGTAATTTTGATATTGTCTCTGGAACCTCGCTACAAAGGA
AATGGAGGTGTATATGGCTGGGATTTGAAAAGAAAAATAATCAGCCGTGGGGCCAATTTTTTAACTCAGATCTTG
CTGAGACCAGGAGCATCTGATTTAACAGGAAGTTTCAGATTATACCGAAAAGAAGTTCTAGAGAAATTAATAGAA
AAATGTGTTTTCTAAAGGCTACGTCTTCCAGATGGAGATGATTGTTGCGGGCAAGACAGTTGAATTATACTATTGGC
GAGGTTCCAATATCATTTGTGGATCGTGTTTATGGTGAATCCAAGTTGGGAGGAAATGAAATAGTATCTTTCTTG
AAAGGATTATTGACTCTTTTTGCTACTACATTAAAAAGAAAGATACTCATTTATAGTTACGTTCAATTCAGGTTAAA
CATGAAAGAAGCCTGGTTACTGATTTGTATAAAATGTACTCTTAAAGTATAAAATATAAGGTAAGGTAAATTTCA
TGCATCTTTTTATGAAGACCACCTATTTTATATTTCAAATTAAATAATTTTAAAGTTGCTGGCCTAATGAGCAAT
GTTCTCAATTTTCGTTTTCAATTTTGCTGTATTGAGACCTATAAATAAATGTATATTTTTTTTTGCATAAAGT

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FIGURE 5812

MASLEVSRSPPRRSRRELEVRSPRQNKYSVLLPTYNERENLPLIVWLLVKSFSESGINYEIIIIIDDGSPDGTRDVA
EQLEKIYGSDRILLRPREKKLGLGTAYIHGMKHATGNYIIIMDADLSHHPKFIPEFIRKQKEGNFDIVSGTRYKG
NGGVYGWDLKRKIIISRGANFLTQILLRPGASDLTGSRFLYRKEVLEKLEKCVSKGYVFQMEMIVRARQLNYTIG
EVPISFVDRVYGESKLGNEIVSFLKGLLTLFATT

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FIGURE 5813

GGAAGACTTGGGTCCTTGGGTTCGAGGTGGGAGCCGACGGGTGGGTAGACCGTGGGGGATATCTCAGTGGCGGAC
GAGGACGGCGGGGACAAGGGGCGGCTGGTTCGGAGTGGCGGAGCGTCAAGTCCCTGTGCGTTCCCTCCCTGAC
GTGTCTTGGCGCTGCCTTGTGCCCCGCCAGCGCCTTTGCATCCGCTCCTGGGCACCGAGGCGCCCTGTAGGATA
CTGCTTGTACTTATTACAGCTAGAGGGTCTCACTCCATTGCCCAGGCCAGAGTGCGGGGATATTTGATAAGAAA
CTTCAGTGAAGGCCGGGCGCGGTGGCTCATGCCCCTAATCCCAGCATTTTCGGAGGCCGAGGCATCATGGACCGA
TCTAAAGAAAACTGCATTTTCAAGGACCTGTTAAGGCTACAGCTCCAGTTGGAGGTCCAAAACGTGTTCTCGTGA
CAGCAATTTCTTGTGCAAGTCCATTACCTGTAAATAGTGGCCAGGCTCAGCGGGTCTTGTGTCCTTCAAATTCT
TCCCAGCGCATTCCTTTGCAAGCACAAAAGCTTGTCTCCAGTCACAAGCCGGTTCAGAATCAGAAGCAGAAGCAA
TTGCAGGCAACCAGTGTACCTCATCTGTCTCCAGGCCACTGAATAACACCCAAAAGAGCAAGCAGCCCCTGCCA
TCGGCACCTGAAAATAATCCTGAGGAGGAAGTGGCATCAAAACAGAAAAATGAAGAATCAAAAAGAGGCAGTGG
GCTTTGGAAGACTTTGAAATTGGTCGCCCTCTGGGTAAAGGAAAGTTTGGTAATGTTTATTTGGCAAGAGAAAAG
CAAAGCAAGTTTATTCTGGCTCTTAAAGTGTATTAAAGCTCAGCTGGAGAAAAGCCGGAGTGGAGCATCAGCTC
AGAAGAGAAGTAGAAATACAGTCCACCTTCGGCATCCTAATATTCTTAGACTGTATGGTTATTTCCATGATGCT
ACCAGAGTCTACCTAATTCTGGAATATGCACCACTTGGAAACAGTTTATAGAGAACTTCAGAACTTTCAAAGTTT
GATGAGCAGAGAACTGCTACTTATATAACAGAATTGGCAAATGCCCTGTCTTACTGTTCATTGCAAGAGAGTTATT
CATAGAGACATTAAGCCAGAGAACTTACTTCTTGGATCAGCTGGAGAGCTTAAAAATTGCAGATTTTGGGTGGTCA
GTACATGCTCCATCTTCCAGGAGGACCACTCTCTGTGGCACCCCTGGACTACCTGCCCCCTGAAATGATTGAAGGT
CGGATGCATGATGAGAAGGTGGATCTCTGGAGCCTTGGAGTTCTTTGCTATGAATTTTGTAGTTGGGAAGCCTCCT
TTTGAGGCAAAACACATACCAAGAGACCTACAAAAGAATATCACGGGTGGAATTCACATTCCTGACTTTGTAACA
GAGGGAGCCAGGGACCTCATTTCAAGACTGTTGAAGCATAATCCAGCCAGAGGCCAATGCTCAGAGAAGTACTT
GAACACCCCTGGATCACAGCAAATTCATCAAAACCATCAAATTGCCAAAACAAAGAATCAGCTAGCAAACAGTCT
TAGGAATCGTGCAGGGGGAGAAATCCTTGAGCCAGGGCTGCCATATAACCTGACAGGAACATGCTACTGAAGTTT
ATTTTACCATTGACTGCTGCCCTCAATCTAGAACGCTACACAAGAAATATTTGTTTACTCAGCAGGTGTGCCTT
AACCTCCCTATTGAGAAAGCTCCACATCAATAAACATGACACTCTGAAGTGAAAGTAGCCACGAGAATTGTGCTA
CTTATACTGGTTTATAATCTGGAGGCAAGGTTGACTGACGCCGCCCCGTCAGCCTGTGCTAGGCATGGTGTCTT
CACAGGAGGCAAAATCCAGAGCCTGGCTGTGGGGAAAGTGACCACTCTGCCCTGACCCCGATCAGTTAAGGAGCTG
TGCAATAACCTTCCTAGTACCTGAGTGAGTGTGTAACCTTATTGGGTGGCGAAGCCTGGTAAAGCTGTTGGAATG
AGTATGTGATTCTTTTAAAGTATGAAAATAAAGATATATGTACAGACTTGTATTTTTCTCTGGTGGCATTCTCT
TAGGAATGCTGTGTGTCTGTCCGGCACCCCGGTAGGCCTGATTGGGTTTCTAGTCTCTTAACCACTTATCTCC
CATATGAGAGTGTGAAAAATAGGAACACGTGCTCTACCTCCATTTAGGGATTTGCTTGGGATACAGAAGAGGCCA
TGTGTCTCAGAGCTGTTAAGGGCTTATTTTTTTTAAACATTGGAGTCATAGCATGTGTGTAAACTTTAAATATGC
AAATAAATAAGTATCTATGTCT

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FIGURE 5814

AGAGGAGTGGGACCGATCGATAGCGCAGCGGTCGCTTGGCGCCCTTTTCAGCGTGCGCAGTGAACGTGCGCTCGGA
GCGGTAGATTGGGCAGGATTCGCGCCTCCATTTTTCCAGGAGAGAGCGGGATACCAAGAGAACCGGACCAGCTGC
TGGCAGGGAAACTGTCTTCCTTTTCTCCAAGATGTTACAGAACCAAAGTGGGCTTGAAGGACCGCCAGCAGCTCTA
CAAGCTGATCATTAGCCAGCTGCTATATGACGGCTACATCAGCATCGCCAATGGCCTCATCAATGAAATCAAGCC
TCAGTCTGTGTGTGCACCCCTCGGAGCAGCTCCTGCATCTCATCAAACCTCGGAATGGAAAACGATGACACCGCAGT
TCAGTATGCAATTGGTCGTTTCAGATACTGTTGCCCCCTGGCACAGGGATTGACCTGGAATTTGATGCAGATGTTCA
GACTATGTCCCAGAGGCTTCTGAGTACGAAACATGCTATGTACATCACATAAAGGACCATGCCGTGTAGCTAC
CTATAGTAGAGATGGACAGTTAATAGCTACTGGGTCTGCTGATGCTTCGATAAAGATACTTGACACAGAGAGGAT
GTTGGCCAAAAGTGCCATGCCAATAGAGGTCATGATGAATGAGACCGCACAAACAAAATATGGAAAACCAACCCAGT
GATTCGAACCTTTTATGACCATGTGGATGAAGTCACGTGCCTTGCTTTCCACCCAACAGAACAGATCCTGGCTTC
TGGTTCAAGGGATTATACTCTTAAATTATTTGATTATTCCAAACCATCAGCAAAAAGAGCCTTCAAATACATTCA
GGAAGCTGAAATGTTACGTTCCATCTCTTTTCATCCTTCTGGAGACTTTATACTTGTGCGAACTCAGCATCCTAC
TCTTCGCCCTTTATGATATCAACACCTTTCAATGTTTTGTCTCTTGCAATCCTCAAGATCAACACACCGATGCTAT
ATGTTCCGTTAATTACAATTCTAGTGCCAATATGTACGTAACGGAAAGCAAGGACGGCTGCATCAAATTATGGGA
TGGTGTTTCAAATCGATGCATCACAACTTTTGAGAAAGCACATGACGGTGCTGAAGTTTGTCTGCCATTTTTTC
CAAAAATTCTAAATACATTCTCTCAAGTGGAAGAAAGACTCTGTAGCTAAACTTTGGGAAATATCAACGGGACGAAC
ACTGGTCAGATACACGGGCGCGGGTTTAAGTGACGCCAGGTGCACCGGACACAGGCTGTGTTTAACCACACCGA
GGACTATGTGTTGCTGCCCCGACGAGAGGACGATCAGTCTTTGCTGCTGGGACTCGAGGACAGCCGAGCGGAGAAA
CCTGCTGTCGTTGGGGCACAACAATATTGTACGCTGCATAGTGCACTCCCCCACCACCCCGGGTTCATGACGTG
CAGCGATGACTTCAGAGCGCGGTTTTGGTACCGGAGATCGACCACTGACTGAGCCACCCCTCTCCGTAGGGTTCTT
TCTCGAGGACTCTACCCCTCCTCCCCACGTCTGTCTCAGCTGCAGTCGTAAGTCCGTGCACCATCCTTGACGTT
TTGCTGCCACCTCTGTCCACATTCTTCTTGATTTGTATAAAAGAATCTTTTTTACCTTGATGTAGAATCATGG
TGGAAAAAGTTGGAAACACAGATCTGTGCAGTTCTACATTCACTGATTATTACAGTGTGATTTTCATCGGTTTTG
TAAGTACAGGACTTGCCGTTTCTTTTGATCTCTTGATTGAAGGAGGATAGGGCATTAAAGTGCTTTTGACATGAG
G

6295/6881
FIGURE 5815

MYRTKVGLKDRQQLYKLIISQLLYDGYISIANGLINEIKPQSVCAPSEQLLHLIKLGMENDDTAVQYAIGRSDTV
APGTGIDLEFDADVQTMSPLEASEYETCYVTSHKGPCRVATYSRDGQLIATGSADASI KIL DTERMLAKSAMP I EV
MMNETAQONMENHPVIRTLYDHVDEVTCLAFHPTEQILASGSRDYTLKLF DYSKPSAKRAFKYIQEAEMLR S I SF
HPSGDFILVGTQHPTLRLYDINTFQCFVSCNPQDQHTDAICSVNYNSSANMYVTGSKDGC I KLWDGVS NRCITTF
EKAHDGAEVCSAIFSKNSKYILSSGKDSVAKLWEISTGRTLVR YTGAGLSGRQVHRTQAVFNHTEDYVLLPDERT
ISLCCWDSRTAERRNLLSLGHNNIVRCIVHSPTNPGFMTCSDDFRARFWYRRSTTD

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FIGURE 5816

GGATTTGCGCCGAAATCCCGGAAGTGACAGCTTTGGGGGTTTGCTGCTGGCTCTGACTCCCGTCCTGCG**ATGGGT**
TGCGACGGGGGAACAATCCCCAAGAGGCATGAACTGGTGAAGGGGCCGAAGAAGGTTGAGAAGGTCGACAAAGAT
GCTGAATTAGTGGCCCAATGGAACATTGTACTCTAAGTCAGGAAATATTAAGACGACCAATAGTTGCCTGTGAA
CTTGGCAGACTTTATAACAAAGATGCCGTCATTGAATTTCTCTTGGACAAATCTGCAGAAAAGGCTCTTGGGAAG
GCAGCATCTCACATTAAAAGCATTAAAGAATGTGACAGAGCTGAAGCTTTCTGATAATCCTGCCTGGGAAGGGGAT
AAAGGAAACACTAAAGGTGACAAGCACGATGACCTCCAGCGGGCGCGTTTCATCTGCCCCGTTGTGGGCCTGGAG
ATGAACGGCCGACACAGGTTCTGCTTCCTTCGGTGCTGCGGCTGTGTGTTTTCTGAGCGAGCCTTGAAAGAGATA
AAAGCGGAAGTTTGCCACACGTGTGGGGCTGCCTTCCAGGAGGATGATGTCATCATGCTCAATGGCACCAAGGAG
GATGTGGACGTGCTGAAGACAAGGATGGAGGAGAGAAGGCTGAGAGCGAAGCTGGAAAAAGAAAACAAAGAAACCC
AAGGCAGCAGAGTCTGTTTCAAACACAGATGTCAGTGAAGAAGCCCCAGGGCCATCAAAAAGTTAAGACAGGGGAAG
CCTGAAGAAGCCAGCCTTGATTCTAGAGAGAAGAAAACCAACTTGGCTCCCCAAAAGCACAGCAATGAATGAGAGC
TCTTCTGAAAAAGCTGGGAAGCCTCCGTGTGGAGCCACAAAGAGGTCCATCGCTGACAGTGAAGAATCGGAGGCC
TACAAGTCCCTCTTTACCACTCACAGCTCCGCCAAGCGCTCCAAGGAGGAGTCTGCCCACTGGGTACCCACACG
TCCTACTGCTTCT**TGA**AGCCCGCACTGCCACCGCTCCTGCCCCAGAAGGTTGTTTAGTTTCCACGTAGGCAGGTCTG
CTTTGTGCCTCTGAGTGCGCTGCTGTGTGTTCTCTCTATAGTTCTGTGTGCATAAAGCTGTCTGGCCAGCCTTCA
AGCTGGTGTGGCCACTCTTGATGTGAGGCGTGTGCGTTCCAGGGGGACATGGGAGGGGCTGCACAGTGGCCCGA
GGTCATGCTTGCTTCCACCTGCAGGTGCATTGGTCTTTTCCATGGCCAGGAAGCCCTGTGGGCTGCACTTTTTA
TGCTTGCAAGTAACAAGAGACTCCAGAGTCTCACCGGTGCAGAGTTGGCACATATTAATTAATACTAAATTTCTAAT
GATCTTGCTACCAGCAATAAATCAAGTAGGCCAAGTGAACTGGGCTTTAAAAAGGATGGATTTCAAATACACTG
TGCCCACTAGAAGCTTCGAAGGGCCTCGTCCCTCTGCTACAGCCCTGGGAGGAGCCAGGATCCTTGTTGGTCTAG
CTAAATACTGTTAGGGGAGTGTGCCCCATCTCATCATTTTGAAGATAGCAGAGTCATAGTTGGGCACCCAGTGAT
TGGGTTCAAAAATAAAGCTGGTCTGCCTCTTC

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FIGURE 5817

MGCDGGTIPKRHELVKGPKKVEKVDKDAELVAQWNYCTLSQEILRRPIVACELGRLYNKDAVIEFLDKSAEKAL
GKAASHIKSIKNVTELKLSDNPAWEGDKGNTKGDKHDDLQRRARFICPVVGLEMNGRHRFCFLRCCGCVFSEALK
EIKAEVCHTCGAAFQEDDVIMLNGTKEDVDVLKTRMEERRLRKLEKKTCKPKAAESVSKPDVSEEAPGPSKVKT
GKP EEASLDSREKKTNLAPKSTAMNESSGKAGKPPCGATKRSIADSESEAYKSLFTTHSSAKRSKEESAHWVT
HTSYCF

6298/6881
FIGURE 5818

CCGAGGCGGCCTCTTGTGCGATCCAGGGCGCACAAGGCTGGGAGAGCGCCCCGGGGCCCCCTGCTATCCGCGCCGG
AGGTTGGAAGAGGGTGGGTTGCCGCCGCCGAGGGCGAGAGCGCCAGAGGAGCGGGAAGAAGGAGCGCTCGCCCC
CCCGCCTGCCTCCTCGCTGCCTCCCCGGCGTTGGCTCTCTGGACTCCTAGGCTTGCTGGCTGCTCCTCCCACCCG
CGCCCGCCTCCTCACTCGCCTTTTCGTTGCGCGGGGCTGCTTTCCAAGCCCTGCGGTGCGCCGGGCGAGTGCGG
GGCGAGGGGCCCCGGGGCCAGCACCGAGCAGGGGGCGGGGGTCCGGGCAGAGCGCGGCCGGCCGGGGAGGGGCCAT
GTCTGGCGCGGGCGCAGCGGGGCCCGTCTGCAGCAAGTGACCGAGCGGCGCGGACGGCCGCTGCCCCCTCTGCC
ACCTGGGGCGGTGCGGGCCCGAGCCCCGAGCCCGGGTAGCGCGTAGAGCCGGCGCGATGCACGTGCGCTCACTG
CGAGCTGCGGGCGCCGACAGCTTCGTGGCGCTCTGGGCACCCCTGTTCTGCTGCGCTCCGCCCTGGCCGACTTC
AGCCTGGACAACGAGGTGCACTCGAGCTTCATCCACCGGCGCCTCCGCAGCCAGGAGCGGCGGGAGATGCAGCGC
GAGATCCTCTCCATTTTGGGCTTGCCCCACCGCCCCGCGCCCGCACCTCCAGGGCAAGCACAACTCGGCACCCATG
TTCATGCTGGACCTGTACAACGCCATGGCGGTGGAGGAGGGCGGCGGGCCCCGGCGGCCAGGGCTTCTCCTACCCC
TACAAGGCCGTCTTCAGTACCCAGGGCCCCCCTCTGGCCAGCCTGCAAGATAGCCATTTCTCACCAGCGCCGAC
ATGGTCATGAGCTTCGTCAACCTCGTGGAACATGACAAGGAATTCTTCCACCCACGCTACCACCATCGAGAGTTC
CGGTTTGATCTTTCCAAGATCCCAGAAGGGGAAGCTGTACGGCAGCCGAATTCCGGATCTACAAGGACTACATC
CGGGAACGCTTCGACAATGAGACGTTCCGGATCAGCGTTTATCAGGTGCTCCAGGAGCACTTGGGCAGGGAATCG
GATCTCTTCTGCTCGACAGCCGTACCCTCTGGGCCTCGGAGGAGGGCTGGCTGGTGTGTTGACATCACAGCCACC
AGCAACCACTGGGTGGTCAATCCGCGGCACAACCTGGGCCTGCAGCTCTCGGTGGAGACGCTGGATGGGCAGAGC
ATCAACCCCAAGTTGGCGGGCCTGATTGGGCGGCACGGGGCCCCAGAACAAGCAGCCCTTCATGGTGGCTTTCTTC
AAGGCCACGGAGGTCCACTTCCGCAGCATCCGGTCCACGGGGAGCAAACAGCGCAGCCAGAACCGCTCCAAGACG
CCCAAGAACCAGGAAGCCCTGCGGATGGCCAACGTGGCAGAGAACAGCAGCAGCGACCAGAGGCAGGCCTGTAAG
AAGCACGAGCTGTATGTGAGCTTCCGAGACCTGGGCTGGCAGGACTGGATCATCGCGCCTGAAGGCTACGCCGCC
TACTACTGTGAGGGGGAGTGTGCCTTCCCTCTGAACTCCTACATGAACGCCACCAACCACGCCATCGTGACAGC
CTGGTCCACTTCATCAACCCGGAACGGTGCCCCAAGCCCTGCTGTGCGCCACGCAGCTCAATGCCATCTCCGTC
CTCTACTTCGATGACAGCTCCAACGTCACTCTGAAGAAATACAGAAACATGGTGGTCCGGGCCTGTGGCTGCCAC
TAGCTCCTCCGAGAATTCAGACCCTTTGGGGCCAAGTTTTTCTGGATCCTCCATTGCTCGCCTTGGCCAGGAACC
AGCAGACCAACTGCCTTTTGTGAGACCTTCCCCCTCCCTATCCCCAACTTTAAAGGTGTGAGAGTATTAGGAAACA
TGAGCAGCATATGGCTTTTGTATCAGTTTTTCAGTGGCAGCATCCAATGAACAAGATCCTACAAGCTGTGCAGGCA
AAACCTAGCAGGAAAAAAAACAACGCATAAAGAAAAATGGCCGGGCCAGGTCATTGGCTGGGAAGTCTCAGCCA
TGCACGGACTCGTTTCCAGAGGTAATTATGAGCGCCTACCAGCCAGGCCACCCAGCCGTGGGAGGAAGGGGGCGT
GGCAAGGGGTGGGCACATTGGTGTCTGTGCGAAAGGAAAATTGACCCGGAAGTTCCTGTAATAAATGTCACAATA
AAACGAATGAATG

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FIGURE 5819

AGCCACTGCAGTACATTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGTACGGGCACTGGGCGACTCT
GTGCCTCGCTGAAGAAAAATACTAAACATGGGCAAAGGAGATCCTAAGAAGCCGAGAGGCCAAATGTCATCATA
TGCATTTTTTGTGCAAACTTGTCGGGAGGAGCATAAGAAGAAGCACTCAGATGCTTCAGTCAACTTCTCAGAGTT
TTCTAACAAGTGCCCATTTATGAAAGACAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCA
AGGATCCCAATGCACCCAAGAGGCCTCCTTCGGCCTTCTTCTGTTCTGCTCTGAGTATCACCCAAAAATCAAAG
GAGAACATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCTGCAGATG
ACAAGCAGCCTGGTGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCAAGCTA
AAGGAAAGCCTGAGGCAGCAAAAAAGGGAGTTGTCAAAGCTGAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAG
ATGAGGAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGAAGATGATGATGATGAATAAGTTGGCT
CTAGCGCAGTTTTTTTTTCTTGCTTAAAGCATTTAACGCCCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAAT
TGAAATGTAAGGCTGTGTAAGATTTGTTTTTAACTGTACAGTGTGTTTTTTGTATGGTTAATACACTACCAAA
TGTGTCTTTAGATGGCCCTGTCCTGGTGATTTTTCAATAGTCACTAACCTTGCCTGGTAGAGTATGGGGGTTGT
AAATTGGCATGAAATTTAAAGCAGGTTCTTGTTGGTGCGCAGCACAAATTAGTTATATATGGGGATGGTAGTTT
TTTCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTCTGTAACTGAATACCACTCTGTAATTGC
AAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTT

6300/6881
FIGURE 5820

MGKGDPPKPRGKMSSYAFFVQTCREEHKKKHSDASVNFSEFSNKCHYERQMPTYIPPKGETKKKFKDPNAPKRPP
SAFFLFCSEYHPKIKGEHPGLSIGDVAKKLGEWNNNTAADDKQPGKKAAKLKEYEKDIAAYQAKGKPEAAKKG
VVKAEKSKKKKEEEDEEEDEEEDEEEDEEEDEEDDDDE